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The
CHEMIST AND DRUGGIST

Established 1859 28 Essex Street, Strand, London, W.C.2 *Registered as a Newspaper*

No. 2851
VOL. CXXI.

SEPTEMBER 29, 1934

Annual Subscription (with Diary) 20/-. Single Copies 9d.

Ostomalt

Bonus Scheme

Represents –

EXTRA PROFIT FOR YOU

77¾%
PROFIT ON COST
43¾%
ON TURNOVER

It will pay you to place a larger order for Ostomalt next time. New generous all-the-year-round bonus terms * have been introduced to make Ostomalt an exceptionally paying line to handle. It is not difficult to sell Ostomalt. Its appetising flavour, its triple concentration and low dosage provide you with talking points possessed by no other vitamin-malt tonic. New, attractive show material and literature are available to interest your customers, while we are interesting the doctors by persistent personal and postal selling. Write at once for full particulars to Glaxo Laboratories, 56 Osnaburgh Street, N.W. 1

* *These special terms are not available in Irish Free State.*

OSTOMALT

Index to Advertisers, pp. 5 & 6.

"California Syrup of Figs" REGD. brand LAXATIVE

Important Announcement

by

PROPRIETARY AGENCIES Ltd.

Simultaneously with their acquisition of this product Proprietary Agencies, Ltd., are pleased to announce a reduction in wholesale prices and a revision of quantity discount terms, thus affording the retail pharmacist a higher margin of profit and greatly facilitating purchase on best terms

Reduced Wholesale Prices

P. A. T. A.

"CALIFORNIA SYRUP OF FIGS" brand LAXATIVE	*1/3 size	2/6 size
Old Price	12/3	24/3
New Price (Unstamped)	11/3	22/6

* Supplied only in original cases of 2 doz.

COMBINED QUANTITY DISCOUNT TERMS

- "CALIFORNIA SYRUP OF FIGS" (Regd.) brand LAXATIVE
- PHILLIP'S DENTAL MAGNESIA
- "MILK OF MAGNESIA" (Regd.)
- "MILK OF MAGNESIA" brand TABLETS
- "DANDERINE" (Regd.)
- "DANDERINE" SOAP
- SPECIAL 12½% PARCEL

ON £6 ORDERS COMPRISED EXCLUSIVELY OF ITEMS MARKED THUS WE WILL CONTINUE TO ALLOW 12½% CASH 30 DAYS IN CONSIDERATION OF 14 DAYS DISPLAY OF GOODS ORDERED

FROM OCTOBER 1st, 1934

£3 ORDERS ANY ASSORTMENT OF OUR GOODS
5% CASH 30 DAYS

£6 ORDERS ANY ASSORTMENT OF OUR GOODS
7½% CASH 30 DAYS

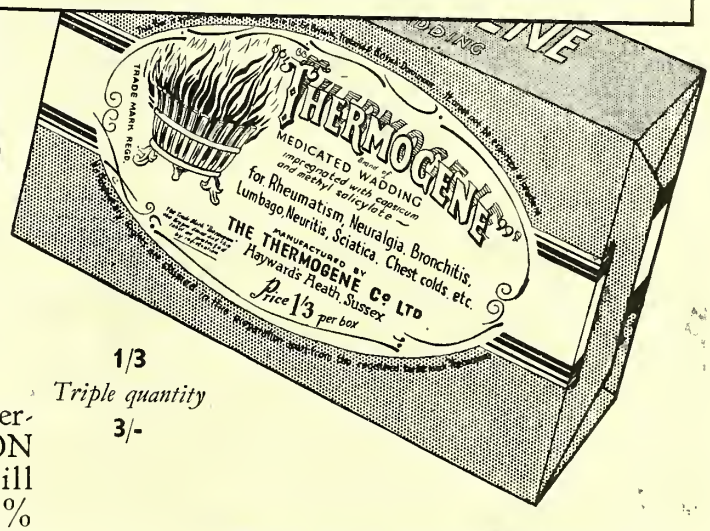
THESE DISCOUNTS ARE GIVEN IN CONSIDERATION OF 14 DAYS DISPLAY OF GOODS ORDERED. ORDERS UNDER £6 MUST BE SECURED FROM WHOLESALERS

179/181 ACTON VALE, W.3 SHEPHERD'S BUSH 4435

A New Product

with a famous name

1/3 *per jar*



1/3
Triple quantity
3/-

THERMOGENE
BRAND
VAPOUR RUB

After long research we have perfected a new DUAL-ACTION Vapour Rub. Chemists will appreciate that with nearly a 50% content of active medicaments THERMOGENE Brand VAPOUR RUB is vastly superior to the old vapourising ointments. The high percentage of active constituents represents nearly three times the medicament content of any similar preparation.

The new product sells in a very attractive jar at 1/3—and remember, this new DUAL-ACTION Vapour Rub will have the famous name THERMOGENE behind it. Your profits on THERMOGENE brand VAPOUR RUB will be generous. Be sure to purchase your initial requirements at Window Display Bonus Terms.

THERMOGENE
BRAND
MEDICATED WADDING

In announcing the introduction of the new THERMOGENE Brand VAPOUR RUB we also draw your attention to THERMOGENE Brand MEDICATED WADDING —a product with a high reputation and long established sale.

We intend to maintain our national advertising for the MEDICATED WADDING and Chemists are assured that the demand will be as large as ever. A Display Bonus offer is now operating, so send your order today and be sure to obtain generous profits.

Both products will be supported by powerful, nation-wide press-advertising

THE THERMOGENE Co. LTD., 160 PICCADILLY, LONDON, W.1

A A

BIG BEECHAM BONUS OFFER

To introduce our new 2/6 Family Size of Beechams Brand Lung Syrup containing three times the quantity of the 1/3 size, and yet retailing at only double the price, we have pleasure in giving you particulars of a Big Bonus offer on all Beecham Products which comes into operation at once.

FOR SIXTEEN DAYS ONLY

WE OFFER THE FOLLOWING EXTRA DISCOUNTS ON BEECHAM PRODUCTS

5% Bonus Discount on Beecham's Pills . .
5% Bonus Discount on Beecham's Powders.
5% Bonus Discount on Beechams Lung Syrup BRAND
5% Bonus Discount on Lactopeptine BRAND . . .

Minimum assorted order **50/-**, which must include the following :—

½ dozen **1/3** size Beechams Brand Lung Syrup
¼ ,, **2/6** ,, ,,
} or equivalent value.
¼ ,, **1/3** size Lactopeptine Brand Tablets.

Larger parcels pro rata.

Your average profits will then be over 35% on your turnover, or more than 50% on your outlay. These bonus parcels can be obtained either direct or through your wholesaler. All goods carriage paid. All Beecham Products are protected under the P.A.T.A. Regulations.

BEECHAMS LUNG SYRUP BRAND

A Great Success to be Greater Still.

As a result of numerous requests from chemists and the public we have pleasure in advising the introduction of Beechams Brand Lung Syrup Giant Family Size (containing three times the quantity of the 1/3 size), to retail at the extraordinarily low price of 2/6 per bottle.

All the important national and provincial newspapers will be included in our coverage to announce this new pack.

Do not disappoint your customers—see that your stocks are adequate to meet the demand for this Giant bottle at a popular price.

ADVERTISING

Every important newspaper and periodical in the country will carry sales-compelling advertisements for Beecham Products right into the homes of the consumers. Our extensive national advertising campaign will be maintained and increased, and you can obtain a greater share of the business by using your windows and counters to connect up with this campaign. Attractive show material will be gladly supplied on request.

LACTOPEPTINE BRAND

A new advertising campaign for this excellent remedy is being put into operation forthwith.

ORDER NOW

Closing Date of Bonus Offer—Monday, Oct. 8

BEECHAMS PILLS LIMITED
ST. HELENS, LANCS.

GLYMIEL JELLY

1934 WINDOW DISPLAY

BONUS PARCELS

7
Assortments available
Oct. 1ST

Greatly Increased Advertising will appear in the Press throughout the Season

Tubes 3d., 6d. & 1/-
Decorative Jars 2/6

SEND IN YOUR ORDER NOW!

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THE PREMIER MANILLA TOILET TISSUE
MEDICATED or UNMEDICATED
12 oz. Rolls.

"MEDICRAPE"

GRADE "A" CREPE, THIN, SOFT as SWAN'S DOWN. MEDICATED with LYSOL
6 oz. Rolls.

Drayton Mill

GOLD MEDAL

TOILET PAPERS

LYSOL

MEDICATED

750 Pieces, 12 oz. Rolls.
THIN, SOFT as VELVET and SOLUBLE.
NO INJURIOUS PRINT on PAPER.

THE MOST POWERFUL DEODORISING TOILET PAPER MADE

Treated with "LYSOL" under a pressure of 40 lbs. per square inch, which ensures a perfect non-irritating antiseptic paper.

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PURE MANILLA PAPER, THIN, SOFT and ECONOMICAL
COMPLETELY WRAPPED in CELLOPHANE
About 900 pieces
12 oz. Rolls.

"852"

PURE SULPHITE PAPER, THIN
About 750 pieces
Passed by THE INSTITUTE OF HYGIENE
COMPLETELY WRAPPED in TRANSPARENT
12 oz. Rolls.

THE DRAYTON PAPER WORKS LTD.

SOUTH PARK, FULHAM, S.W.6

INDEX TO ADVERTISERS

Allen, Stafford, & Sons, Ltd. (Extracts, Tinctures, &c.) xx
Anglo-French Drug Co., Ltd. (Anaquintine Nasal Drops) xxii
Armstrong Cork Co., Ltd. (Corks) 19
Arnfield, J. C., & Sons, Ltd. (Raspberry Vinegar, &c.) vi
Aspro, Ltd. (Aspro) xxiii
Association of Manfg. Chemists, Ltd. Col. Supp.
Ayrton-Graham, Ltd. (Shopfittings) ... 12

Bandoeng Quinine Factories (Quinine and Salts) iii
Beaucaire Laboratories (Dry Cleaning Fluid) 12
Beechams Pills, Ltd. (Bonus Offer) ... 2
Bell, John, Hills & Lucas, Ltd. (Extract of Malt with Parrishes Food) Leader Page
Berdoe & Fish, Ltd. (Valuers, &c.) Col. Supp.
Berton, Arthur, Ltd. (Sanitary Towels) 17
Betts & Co., Ltd. (Collapsible Tubes) 6
Blade Industries, Ltd. (Carnos Blades) 10
British Drug Houses, Ltd., The (Radio-Malt) 28
British Thomson-Houston Co., Ltd. (Mazda Lamps) 15
Brooks & Warburton, Ltd. (Mead's Dextri-Maltose) vii
Burall Bros. (D. & P. Service) 22
Burrough, James, Ltd. (Alcohol) Leader Page
Burroughs Wellcome & Co. ('Tabloid' Aspirin) 27
Butler & Crispe (Hot-Water Bottles) ... xv

Caldicot Tin Stamping Works, Ltd. (Decorated Tins) 18
Carnegie Bros., Ltd. (Chemicals, &c.)... ii
Castle, Huskisson, Ltd. (Tablets, &c.)... iii
Christy, T., & Co., Ltd. (Co-re-ga) 22
Clark, S. F. (Valuer, &c.) .....Col. Supp.
Clay & Abraham, Ltd. (Iodine Locket) 8
Continental Laboratories, Ltd. (Uralysol) vii
Cook, Geo. (Shopfittings) 22
Cooper Laboratory, Ltd. (Tablets, &c.) v
Cox, A. H., & Co., Ltd. (All Fours Cubes) .....Cover
Crookes Laboratories (Halibut Liver Oil) xix

Dalmas, A. de St., & Co., Ltd. (Maconochie Products) ix
Deiches (Cash Registers, &c.) 19
Denver Chem. Mfg. Co. (Anti-phlogistine) xxii
Distillers Co., Ltd. (D.C.L. Yeast Tablets) xxvi
Dominion Steel Corporation, Ltd. (Razor Blades) 12
Drayton Paper Works, Ltd. (Toilet Paper) 4
Dudley & Co., Ltd. (Window Display Stands) .....Leader Page

Elboz, L., & Son (Metal Smallwares) ... 19
Eucryl, Ltd. (Dentifrices) 12

Fairy Dyes, Ltd. (Dyes) xxvii
Fassett & Johnson, Ltd. (Angiers Emulsion—Revised Prices) 23
Fink, F., & Co. (Gums) 22
Ford, Shapland & Co., Ltd. ("Sol-vo" Toilet Paper) 17
Fromm, H. (Morfi Rubber Products, &c.) xxviii

General Surgical Co., Ltd. (Hypodermic Syringes, &c.) 16
George, Ernest J., & Co. (Valuer, &c.) Col. Supp.
Gibbs, Antony, & Sons (Iodine) vi
Glaxo Laboratories (Ostomalt) .....Cover
Grout & Co., Ltd. (Crêpe Bandages, &c.) 18
Guest, T., & Co., Ltd. (Glycerine of Thymol Pastilles) 25

Hackett, S. E. (Film Overstocks) Col. Supp.
Hall Forster & Co., Ltd. (Vapourisers) 16
Haller Laboratories, Ltd. (Danysz Virus) xxvii
Halmagon Brand Tablets xxiv
Hampden Residential Club .....Col. Supp.
Hampshire, F. W., & Co., Ltd. (Snowfire Jelly) xxvii
Hampson, Fredk. (British Bottles) 19
Harrison, A., & Sons, Ltd. (Printing)... 15
Harvey & Co. (Dublin), Ltd. (Veterinary) 20
Harwoods (Chemists), Ltd. (Tabs. Nomoco) viii
Hough, Hoseason & Co., Ltd. (Nalgo Antiseptic) 5
Hubbuck, T., & Son, Ltd. (Oxide of Zinc) iv

Ibberson, G., & Co. (Razor Blades) ... 12
Ingram & Royle, Ltd. (Mineral Waters) xxv

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THE ANTISEPTIC

It merits your attention and recommendation because it is absolutely safe—definitely kills pain—stops swellings and quickly subdues inflammation. There is a good margin of profit and you can obtain direct or from your usual wholesaler.
Packed in two sizes, 10½d. or 1/6

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TAB. ARTHRITONE — for Rheumatoid Arthritis and allied Rheumatic conditions.
Gives results where other methods of treatment have failed.

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Price ...	4/6d.	8/2d.	16/-	30/-

TAB. CHELIDON CO. — for Gall Stones.
Excellent results in Gall stones, affording endless opportunity to enterprising Chemists.
Price, in bulk, 32/- per 1,000 nett.

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INDEX—cont.

Jackson, E., & Co., Ltd. (Pastilles, &c.) 24
Jones & Co. (Methylators), Ltd. (Methylated Spirit) ... xxii
Josephs, Philip, & Sons, Ltd. (Shopfittings) ... Col. Supp.

Kemsales, Ltd. (Cho-Zen China Tea) ... xxiv
King, J. C., Ltd. (Shopfittings) ... 26

Lax & Shaw, Ltd. (Bottles) ... xviii
Levermore, A., & Co., Ltd. (Precipitated Chalk) ... 22
Leyland & Birmingham Rubber Co., Ltd. (Hot-Water Bottles) ... xvi
Lincoln and Midland Counties Drug Co., Ltd. (Clarke's Blood Mixture) ... viii
Liverpool School of Pharmacy ... 20
Locker, T., & Co., Ltd. (Electric Vibrating Feeders) ... 21
Lofthouse & Saltmer, Ltd. (Halibut Liver Oil) ... xxvi
London College of Pharmacy ... 20
Low, Son & Haydon (Toilet Preps.) ... 22

Macandrews & Forbes, Ltd. (Apollo Liquorice) ... vi
Matthews & Wilson (1931), Ltd. (Pills, &c.) ... ii
Matthews, D., & Son (Shopfittings) ... 22
Matthews, S., & Co., Ltd. (Curicones, &c.) ... viii
Maund, F., & Berg, E., Ltd. (Showcases) ... Col. Supp.
Meggeson & Co., Ltd. (Pastilles) ... i
Metropolitan-Vickers Electrical Co., Ltd. (Cosmos Lamps) ... Leader Page
Millar, A., & Co., Ltd. (Orange Wine) xxiv
Mono Containers, Ltd. (Hygienic Containers) ... 18

Norwegian Cod Liver Oil ... xxvi

Olive Cato Toilet Products ... 10
Orridge & Co. (Valuers, &c.) ... Col. Supp.

Paines & Byrne, Ltd. (Glandular Products) ... Leader Page
Parfumerie de Fleury (Lady Gay Perfume) ... 9
Pearson, James, Ltd. (Xodo Iodized Locket) ... 24
Perry & Hope, Ltd. (Phosphate of Soda) ... vi
Petrolagar Laboratories, Ltd. ("Proctoids") ... 18
Pitman, Sir Isaac, & Sons, Ltd. (Books) 22
Pollard, E., & Co., Ltd. (Reflecta-Strip) 21
Porteous, G., & Sons (Leeds), Ltd. (Machinery) ... 21
Poth, Hille & Co., Ltd. (Beeswax) ... xxiv
Potter & Clarke, Ltd. (Wholesale Druggists) ... xiii
Potter & Moore, Ltd. (Gift Sets) ... xii
Prescriber, The ... vi
Proprietary Agencies, Ltd. ("California Syrup of Figs") ... Cover
Putnams Dependable Service (Chlorozone) ... 22

Rendell, W. J., Ltd. (Quinine Pessaries) ... xiv
Roberts' Patent Filling Machine Co. ... 21
Rooney, R. A., & Sons (Dental Plate Brush) ... 10
Rowland, A., & Sons, Ltd. (Macassar Oil) ... 12
Rudloph-Riddell, F. O. (Rheumasan) ... 7

Sangers, Ltd. (Glymiel Jelly) ... 3
Schutze, F., & Co., Ltd. (Surgical Appliances, &c.) ... 16
Scott & Bowne, Ltd. (Halibut Liver Oil "Halivite") ... 13 & 14
Scurr, C. A. (Optical Tuition) ... 22
Selka Rubber Works, Ltd. (Selka) ... 16
Shadeine Co. (Hair Dyes) ... 22
Sharplin, W. J., Ltd. (Stoppers) ... 19
Smith, T. & H., Ltd. (Alkaloids) ... iii

Southall Bros. & Barclay, Ltd. (Sanitary Towels) ... 16
Speake, W. (Old Bottle Stocks) ... Col. Supp.
Speer, W. R., & Son (Toothbrushes) 10
Sterns, Ltd. (Oils, Petroleum) ... vii
Surgical Hosiery Co., Ltd. (Elastic Hosiery) ... xvii
Suter, A. F., & Co., Ltd. (Gums) ... v

Thermogene Co., Ltd. (Thermogene Products) ... 1
Thomas & Linton, Ltd. (Susie's Perfect Cleaner, &c.) ... 12
Thompson & Capper Wholesale, Ltd. ("Varicones," &c.) ... 20, 25
Tilbury, W. R., & Son (Toothbrushes) 22
Tomlinson, T., & Son (Valuers, &c.) Col. Supp.
Tyrer, T., & Co., Ltd. (Sterling Brand Chemicals) ... v

Veno Drug Co., Ltd. (Veno Products Bonus) ... x, xi

Warner, W. R., & Co., Ltd. (Sloans Brand Liniment) ... xxi
Washington Chemical Co., Ltd. (Cream of Magnesia) ... ii
Watts, T., & Walker, Ltd. (Valuers, &c.) ... Col. Supp.
Westminster College of Pharmacy ... 20
Whiffen & Sons, Ltd. (Salicin B.P.) ... Cover
Willows, Francis, Butler & Thompson, Ltd. (Pollantin) ... iv
Wilson & Mansfield, Ltd. (Eucalyptus Oil) ... iv
Wine Growers' Association (Invalid Port, &c.) ... 24
Woolley, J., Sons & Co., Ltd. (Nurona Toilet Specialities) ... 11

Yvonne, W. J., et Cie, Ltd. (Toilet Preps.) ... 22

Zeal, G. H., Ltd. (Clinical Thermometers) ... 17

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Tubes give better service than tins; they are more hygienic. Betts' Tubes are all British made by modern machinery.

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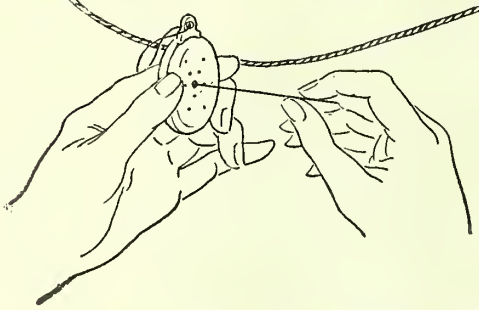
Prices:

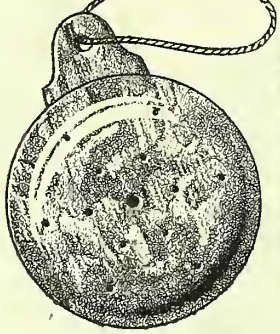
Rheumasan ointment 3/9. Rheumasan liquid 3/3.

Less usual discounts.

AN IODINE LOCKET The chemist can DISPLAY

It does not evaporate while in stock





To be worn as a locket

It can be sewn or pinned to an undergarment

A simple precaution against infection

Because of the diffusion of Iodine Vapour, which tarnishes other products and display matter nearby, chemists have had to deny themselves the profitable sale of Iodine Lockets. Now "Canda" has solved this problem for the chemist — providing a perfectly safe Iodine Locket to stock and display. It will not diffuse vapour until the actual iodine container (beneath a wad of cotton wool) is pierced with a pin by the customer or chemist. Use only the centre hole of the Locket for this purpose. "Canda" Iodine Lockets are guaranteed safe for 6 months while in stock. The Iodine Locket has proved itself a valuable and efficient prophylactic against colds and catarrh. Suspended round the neck, concealed beneath the clothing, or pendant below the mouthpiece of a telephone, it remains effective for a period of 9 to 12 months. It is becoming increasingly popular—sold by post—and now the Chemist, too, can profit from direct sales with this novel "Canda" patent.

CANDA

Registered TRADE MARK

IODINE LOCKET

PROV. PAT. 14468/34

In 7 assorted colours 1 - dozen in display outer with showcards and leaflets.

Prices :

8/- per dozen

7/9 " "

(3-doz. carriage paid)

7/6 per dozen

(gross lots)

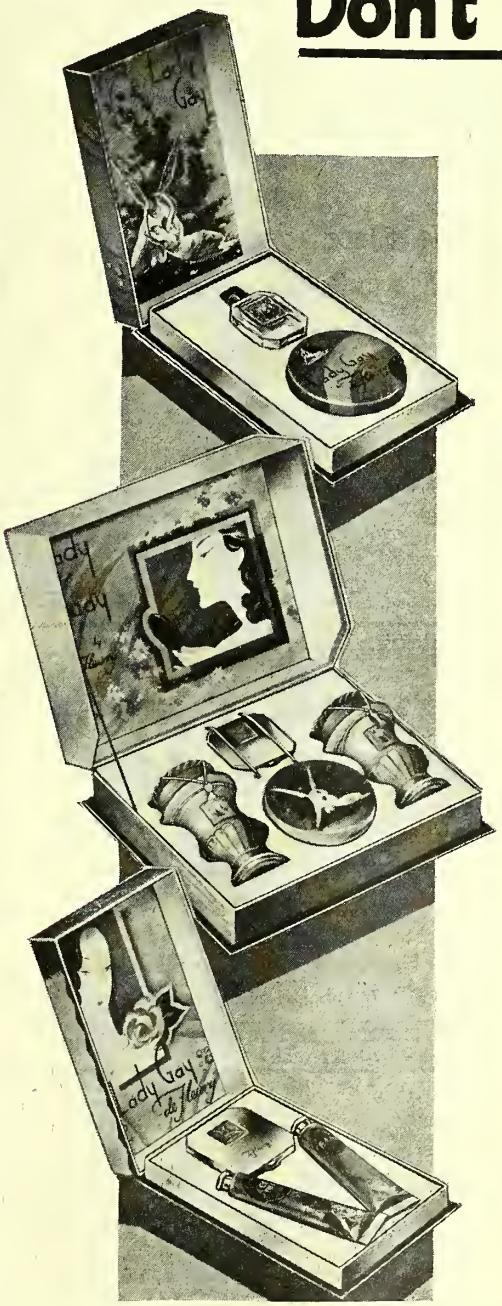
Manufactured and Invented by

CLAY & ABRAHAM, LTD., Manufacturing Chemists, LIVERPOOL

Established 1813

You want quick sellers for Xmas.

Don't buy until you see ours



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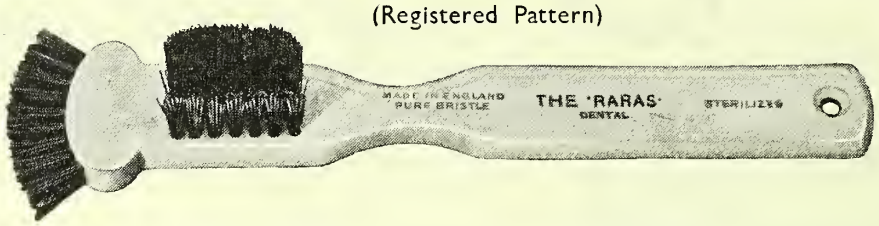
We are offering this year Lady Gay Quality Gift Sets that will prove the biggest counter attractions and quickest selling lines ever put on the market.

Lady Gay Gift Sets are exquisitely presented, charming in design, perfect in every detail and so reasonably priced as to suit every purse. Wonderful value to sell at sight. There are also practical gifts that every man will appreciate. Send to-day for our special lists or see representative samples before placing your Xmas orders.

Parfumerie de Fleury
Rawdon, Leeds

THE "RARAS"
DENTAL PLATE BRUSH

(Registered Pattern)



Will clean all parts of the Plate
The most practical Brush made

18/- PER DOZEN SELL **2/6** EACH

Made by

R. A. ROONEY & SONS

ESTABLISHED OVER A CENTURY

WALTHAMSTOW - - - LONDON, E.17

Stock Carnos RAZOR BLADES

for quick sales!

12 for 6d.

Write for details to:

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PRODUCTS - New 6d. Lines

including Powders, Creams, Lotions, Lipsticks, Eye Cosmetics, Rouge, etc., can be obtained from the Laboratory at **48/-** per gross nett.

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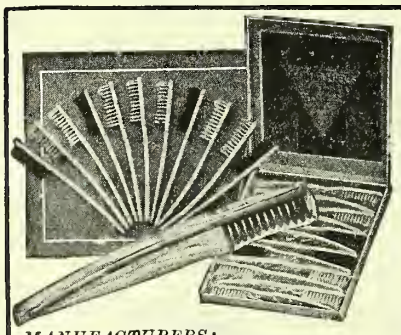
Telephone: Museum 8140



- THE -

"STATIC"

Reg. No. 523,323

TOOTH BRUSH

BONEHANDLES WHITE, UNBLEACHED, OR BLACK BRISTLES

Names free on 6 doz. lots.

6/6 per doz.

From all Wholesalers.

MANUFACTURERS:

W. R. SPEER & SON, 215 Dalston Lane, E.8.

EST. 100 YEARS.

Attractive NEW *toiletries*

The success of Nurona Sun-Tan Cream indicates that the complete Nurona Series is very worthy of consideration. In their attractive bottles and screw caps they make a very compelling display. They are very definite "repeat" lines.

4 oz. 1/- retail 8/- doz. *Special terms for*
8 oz. 2/- „ 14/- „ *quantity parcels.*

SKIN CREAM

COCONUT OIL SHAMPOO

PINE TAR SHAMPOO

FIXATIVE HAIR CREAM

WAVE SETTING LOTION

NURONA
TOILET SPECIALITIES

DRY SHAMPOO

HAIR DRESSING

BAY RHUM

BAY RHUM (CANTHARIDES)

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The popularity of Rowland's Macassar Oil as a Hair Tonic and Dressing, is reflected in the steady increase in sales during the past year. Widely known and well advertised it attracts a high class and profitable trade.

FAMOUS SINCE 1793

Rowland's Macassar Oil

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EUCRYL

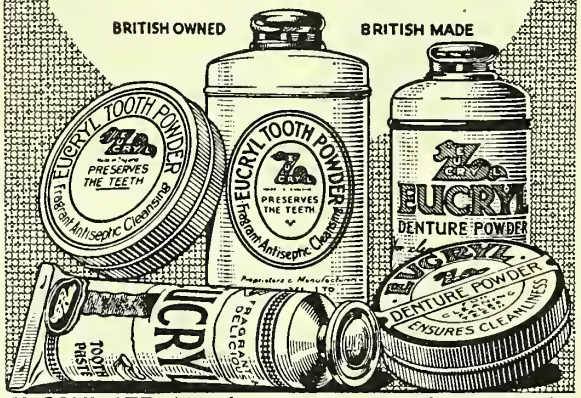
DENTIFRICES

TOOTH POWDER TOOTH PASTE
DENTURE POWDER

Bought on Display Terms yield

PROFIT ON SELLING PRICE	PROFIT ON BUYING PRICE
43%	75%

BRITISH OWNED BRITISH MADE

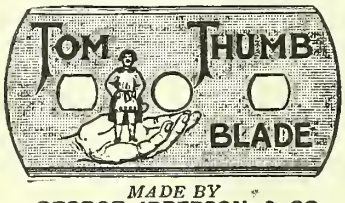


EUCRYL LTD. Manufacturing Chemists—SOUTHAMPTON

HANG IT UP AND LET IT SELL ITSELF

Supplied on cards or boxed. Show cards with every order.

1D. Each Retail



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Retail Price 2/6 per tin	30/-	£1 10 0	
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Retail Price 2/- per 5cc. bottle	24/-	£1 4 0	
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		Cost :—	
10/12ths SCOTTS "HALIVITE" PILLS ...	20/-	16 8	
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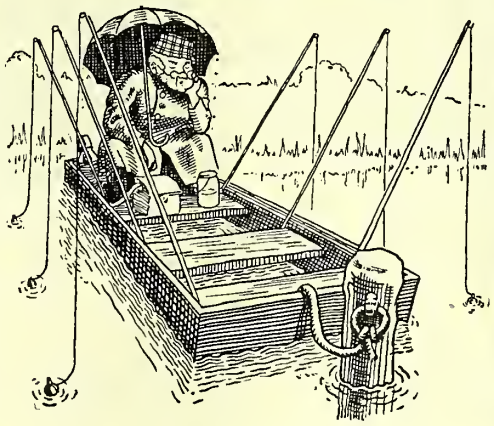

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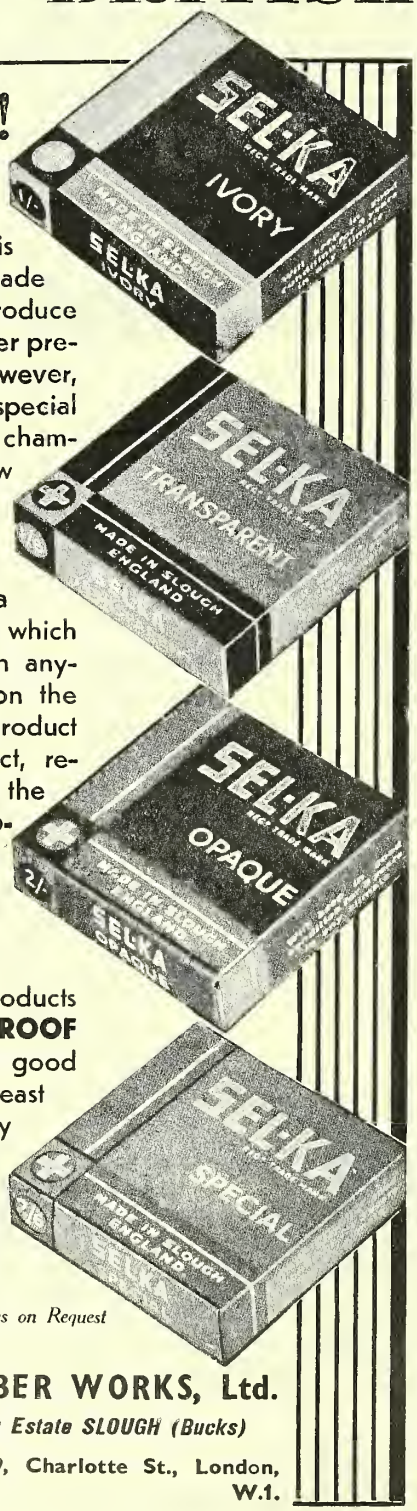

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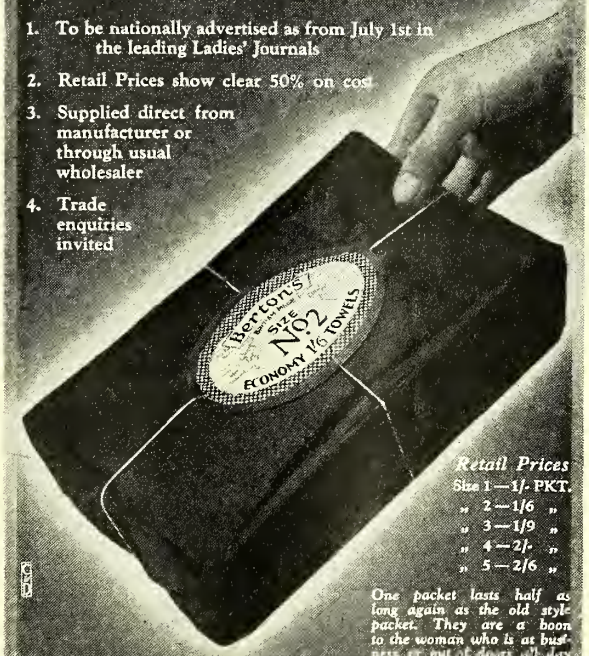

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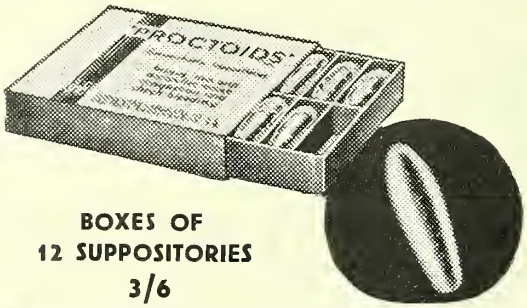

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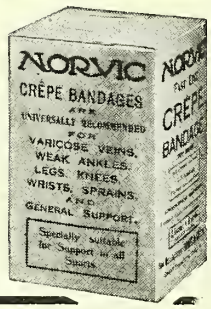

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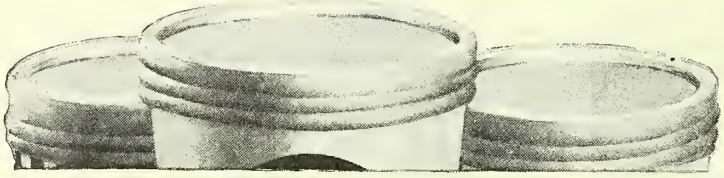

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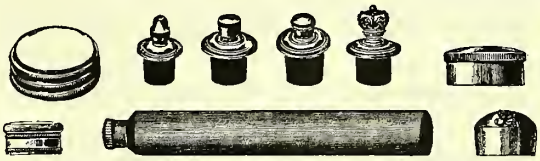

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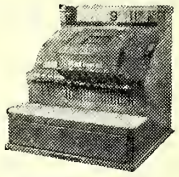

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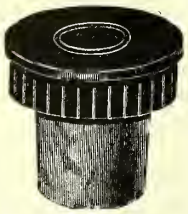

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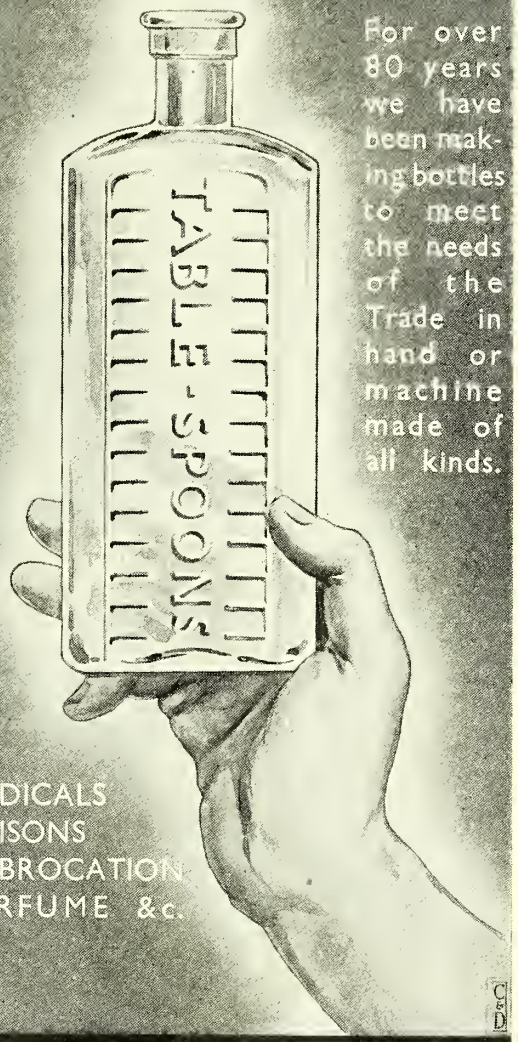

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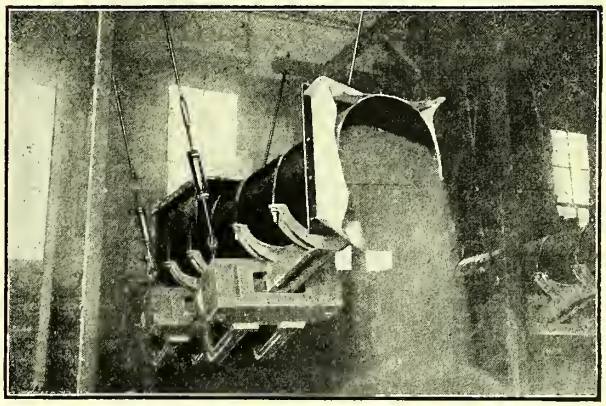

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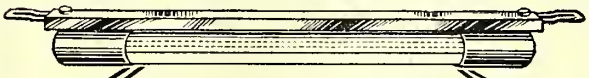

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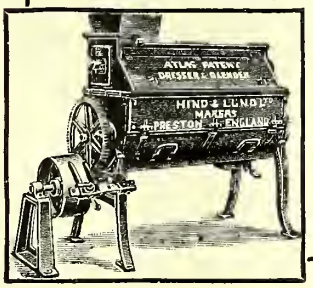

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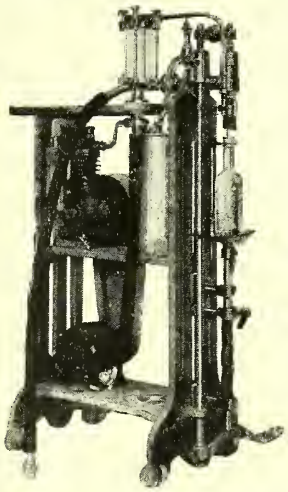

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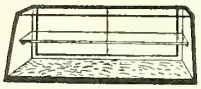
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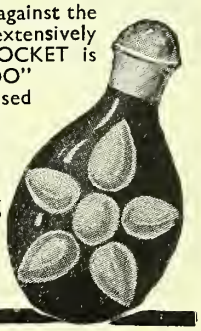

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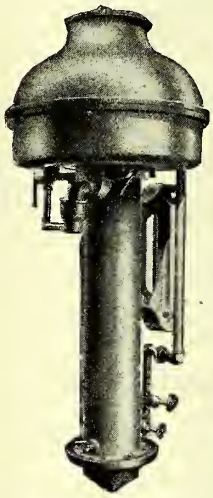

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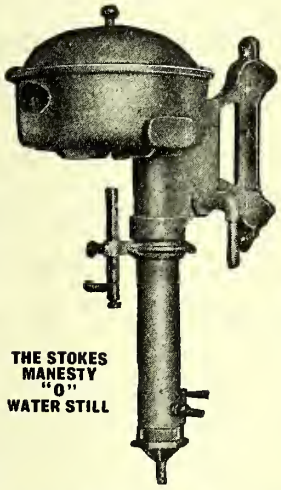

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18-in.	2/3 ,,	4/6 ,,
21-in.	2/9 ,,	5/3 ,,
24-in.	3/3 ,,	6/- ,,
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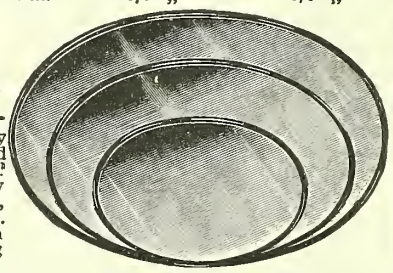

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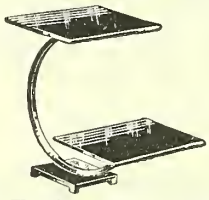

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Chromium Plate Finish **13/6** ,,

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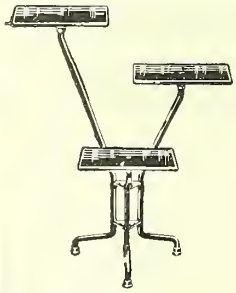

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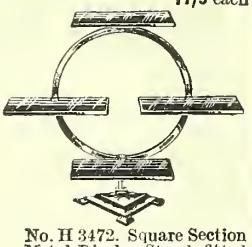

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CHEMIST AND DRUGGIST
A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

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VOL. 121. NO. 2851 SEPTEMBER 29, 1934

CONTENTS

	PAGE
Birmingham Analyst's Report	391
British Pharmaceutical Codex, 1934	398
Business Changes	399
Canadian Chemical Industry	410
CHEMISTS' EXHIBITION	394
Coming Events	399
Correspondence:—	
Letters	415
Legal Queries	416
Miscellaneous Inquiries	416
Deaths	399
Distilling in 1576	391
Editorial Article:—	
Trade with Canada	403
Employment in the Drug Trade	391
Gazette	390
Information Department	402
Irish Notes	389
Marriages	399
New Companies and Company News	390
News of the Week	387
Personalities	399
Pharmaceutical Society of Northern Ireland:—	
Council Meeting	392
Pharmacy in Syria	393
PROGRESS OF PHARMACY:—	
Pharmacy	404
Agricultural Chemistry	404
Analytical Chemistry	404
Biological Chemistry	405
Industrial Chemistry	405
Dentistry	405
Essential Oils	406
Materia Medica	407
Medicine	407
Optics	408
Pharmacology	408
Photography	408
Veterinary Medicine	409
Retrospect	416
Scottish Notes	388
Topical Reflections	389
Trade Marks	414
Trade Notes	400
Trade Report	411

News of the Week

Import Duties Advisory Committee Notices

The Import Duties Advisory Committee give notice that in connection with an application for an increased duty on spectacle frames they are considering the question of the duty chargeable under the Import Duties Act, 1932, on spectacles and eyeglasses; frames and mountings for spectacles and eyeglasses; and parts of such frames and mountings.

They also give notice of an application for the removal from the Free List of powdered, crushed or ground sulphur, flowers of sulphur, colloidal or paste sulphur and sulphur in roll, stick, cone or similar moulded form. Any representations which interested parties may desire to make in regard to these commodities should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tothill Street, Westminster, London, S.W.1, not later than October 20, 1934.

The Hairdressing Fair

The Hairdressing Fair, organised by the Hairdressers' Wholesalers' Association, Ltd., and the Hairdressers' General Committee, was opened at the Empire Hall, Olympia, on September 25, by Dr. E. Leslie Burgin (Parliamentary Secretary to the Board of Trade). This exhibition contains probably one of the largest collections of beauty products assembled under any one roof, and is therefore of more than ordinary interest to the chemist. Among the stands noticed during a tour of the exhibition were the following:—ANTI-THRAX SAFE PRODUCTS; BACTEROL, LTD.; BOURJOIS, LTD.; E. N. BROMAGE & CO.; THE BUTYWAVE CO.; CALMON & NEATE, LTD.; I. CALVETE, LTD.; CAMILATONE, LTD.; THE CHESEBROUGH MANUFACTURING CO., CONS.; THOS. CHRISTY & CO., LTD.; COTY (ENGLAND), LTD.; THE COUNTY PERFUMERY CO.; DARWINS, LTD.; DUDLEY & CO., LTD.; EVANS WILLIAMS CO., LTD.; J. C. GAMBLES & CO., LTD.; GILLETTE INDUSTRIES, LTD.; HINDERS, LTD.; HINDES, LTD.; R. HOVENDEN & SONS, LTD.; ICILMA CO., LTD.; ILEX SUPPLY CO., LTD.; THE KRASKA CO., LTD.; L. LEICHNER (LONDON), LTD.; MORNY, LTD.; JAMES NEILL & CO. (SHEFFIELD), LTD.; OSBORNE, GARRETT & CO., LTD.; SADKO BEAUTY PREPARATIONS, LTD.; PAPIER POUDRÉ, LTD.; POTTER & MOORE, LTD.; THE PREEMO CO.; PRICHARD & CONSTANCE (MANUFACTURING), LTD.; ROBEL, LTD.; THE SCHOLL MFG. CO., LTD.; STEWART, GOODALL & DUNLOP, LTD.; WALDEN, WALDEN & CO.

Brighton

Councillor S. G. Gibson, the mayor-elect, is the son of the late Mr. W. H. Gibson, chemist and druggist, who was for many years in business in King's Road. He became a member of the Brighton Town Council in 1921.

A special general meeting of the Brighton and Hove Association of Pharmacy was held on September 10, at the request of the local branch of the British Medical Association, to discuss the terms and conditions regarding the proposed scheme of Public Medical Service, arranged between the subcommittees of the two Associations. After a few opening remarks by the chairman, Mr. John Plowright gave a résumé of this scheme and some details of the difficulties which had to be overcome in order to bring to the pharmacist the work which was legitimately his. Mr. Edgar Jones explained the terms arranged between the chemists and the local branch of the British Medical Association. These terms were unanimously adopted by the meeting, the following

resolution being enthusiastically passed:—"The Brighton and Hove Association of Pharmacy approves and adopts the terms and conditions of the proposed scheme of Public Medical Service, arranged between the representatives and those of the local branch of the British Medical Association." Mr. Edgar Jones and Mr. John Plowright were unanimously elected to represent the Association in any further negotiations which may become necessary. A vote of thanks was enthusiastically given to Mr. Edgar Jones and Mr. John Plowright.

Exeter

A meeting of the Exeter and District Branch of the Pharmaceutical Society was held at Exeter on September 19. After the chairman (Mr. W. R. B. Arnold) and Mr. A. J. Merrifield had reported on the Leeds meeting of the British Pharmaceutical Conference, a joint meeting with the Devon Branch of the National Pharmaceutical Union considered the draft Poisons List and Rules, an address by Mr. H. Wippell Gadd, barrister-at-law, being followed by a useful discussion, in the course of which many practical points were raised (see *C. & D.*, September 22, p. 376).

Ipswich

The annual meeting of the Ipswich and District Branch of the Pharmaceutical Society was held on September 17, the president, Mr. L. Piper, in the chair. Officers elected for the coming year were:—*President*, Mr. L. Piper; *Treasurer*, Mr. F. W. Wiggin; *Secretary*, Miss L. M. Humfress, 3 St. Matthews Place, Ipswich; *Assistant Secretary*, Miss G. Bird; *Committee*, Miss Bradford, Messrs. Baddon, Veall, Stratton and Evelyn. It was announced that Mr. E. H. Simmons, member of the Council, will visit the Branch on November 8.

Luton

A meeting of the Bedfordshire Branch (Luton Division) of the Pharmaceutical Society was held on September 20. The main item of the evening was the presentation of prizes to the successful students at the last evening session at the Luton Technical Institution. After a few words of advice from the chairman, Mr. G. N. Shelton, the prizes were presented by Mr. E. H. Burroughs, secretary, as follows:—*Physics*, C. Gilpin; *Chemistry*, H. Hill; *Botany*, D. Richards.

Newcastle-on-Tyne

Alderman G. A. France (Scott & Turner, Ltd.) has been elected president of the local branch of the Y.M.C.A.

The opening meeting of the new session of the Newcastle, District and Northumberland Branch of the Pharmaceutical Society, which was held on September 18 at the Church Institute, was specially arranged as a students' night. During the evening the president, Mr. R. H. Dennison, presented prizes given by the Branch to the successful pharmacy students attending Rutherford College, session 1933-34. After this little ceremony an interesting address was delivered by Mr. J. N. Bennett entitled "The Brighter Side of Study."

Miscellaneous

International Congress of Pharmacy.—The Twelfth International Congress of Pharmacy will be held in Brussels from July 30 to August 5, 1935. The general secretary is M. J. Breugelmans, 3 rue du Gouvernement Provisoire, Brussels, from whom further particulars may be obtained.

Hackney Technical Institute.—A course of evening instruction in modern cosmetic manufacture will commence on September 25, and an evening course of instruction in essential oils and perfumes on subsequent Wednesdays and Thursdays. Further particulars can be obtained on application to the Principal, Dalston Lane, London, E.8.

Visit to works.—A party of members of the West Middlesex Association and friends visited the Hounslow laboratories of Parke, Davis & Co. on September 12. The party was conveyed by motor coach and on arrival conducted over the works and laboratories, which were of great interest. Afterwards tea was served, and Mr. Knott welcomed the visitors on behalf of Messrs. Parke, Davis. Mr. Mylroi, replying, voiced the opinion of the party that a most enjoyable and instructive afternoon had been spent.

Scottish Notes

Medical Service Scheme for Edinburgh

A development of the medical service in Edinburgh is on the point of being inaugurated—a scheme designed to provide medical attendance and drugs to certain parties who are outside the scope of the National Health Insurance Act, such as the wives and children of insured persons and others. About a hundred doctors have agreed to become members, and at a meeting on September 18 the constitution was approved. "The Edinburgh Public Medical Service" has been promoted under the auspices of the British Medical Association. It will have the city of Edinburgh as its area and will start operations on October 1. The subscriptions payable are 4d. per week for one dependent, 8d. per week for two, 10d. per week for three and 1s. per week for four or more. There is free choice of doctor and chemist.

Brevities

The premises of Mr. Allan, chemist and druggist, Kelso, were recently broken into and a sum of money stolen.

Mr. A. R. Murray, Port of Ness, Barvas, has applied to the local authority for a licence to sell agricultural and horticultural poisons.

With the slogan "Soap souvenir of the big boat going down the Clyde," an enterprising Hamilton chemist has made a topical and effective window display.

"*Scotia*" writes (22/9):—"Your 'Retrospect of Fifty Years Ago' (*C. & D.*, Sept 22, p. 386) is a timely reminder to be thorough in all things. There are many chemist delinquents who, if obliging another chemist with drugs, think it unnecessary to label. This is very annoying to the recipient, and in mutual interests everything should be labelled."

A correspondent (22/9) writes:—"There is every likelihood of a famine in apprentices in the near future. This will be brought about by employers who strongly resent the new conditions to be imposed. None but the super-enthusiast is desirous of voluntarily placing further restrictions round his neck. Shop girls or boys in pharmacy are becoming more common every day."

The twenty-second annual conference of the Scottish Association of Insurance Committees is being held at Stranraer on September 28 and 29. The following motion is being put by the Glasgow Burgh Insurance Committee:—"That this Conference is of the opinion that there should be uniformity as between Insurance Committees in Scotland in the proprietary medicines available to insured persons, and that it be remitted to the Executive Committee of the Association to endeavour to secure this." The Glasgow Committee is also moving "That the Government be urged to promote legislation to include within the scope of National Health Insurance young persons between the ages of 14 and 16 years on becoming employed."

Under the heading "Apothecaries at War," the following paragraph appears in a recent issue of a Glasgow newspaper:—"It is not being conducted, so far as I know, with tincture of ammonia, bombs, or phials of vitriol, but there is a war on just now among Glasgow's chemists. It's an economic war. The trouble is the 24-hour drug service introduced some years ago by certain central shops. The seat of hostilities is Springburn. There you can have your bilious pills or your asthma mixture prepared up to midnight any night and have a choice of shops. It all began, I believe, with a young man who determined to make a success of his business regardless of his hours. The representations of his rival chemists having failed to move him, there was apparently no other course than that all chemists should open too. So now the chemists of Springburn operate business in double shifts."

Irish Notes

Irish Chemists' Golfing Society

The Irish Chemists' Golfing Society held its final outdoor meeting of the season at Greystones Golf Club on Sunday, September 16, when competitions were played off for the Kodak cup and the Selo prize. A stiff south-westerly breeze was a pleasant change from the sultry conditions of the previous week, and a brilliant sun was shining in the morning when a good array of players left the clubhouse to play off the first competition. Few courses near Dublin are so picturesquely situated as this fine Wicklow ground. The panoramic outlook from the eighteenth tee is unsurpassable. Bray Head lies to the north, Greystones Bay to the east, with the shimmering Irish Sea beyond, and in the south and west can be seen some of the most typical and beautiful Wicklow country. The scoring was high and many excellent shots were recorded. The victor in this competition for the Kodak cup was Mr. E. MacManus, a consistent championship winner of the Society, who had a score of two down to bogey. In the second competition the Selo prize was carried off by Mr. J. Laird, a newcomer to the Society, and a young and promising golfing chemist. Mr. Laird won with a net score of 69. A transformation of the weather took place in the afternoon. The gathering clouds burst, and the course was deluged. The members hastened to the pavilion, where a meeting of the Society was held. Mr. J. J. Roche, in the unavoidable absence of the captain (Mr. J. Costello), presided, and presented the prizes, congratulating the winners in a brief speech. A vote of thanks to Kodak, Ltd., proposed by Mr. Clarke, was carried unanimously. Mr. Davis moved a vote of thanks to Ilford, Ltd., for donating the Selo prize, and it was carried with acclamation. On the motion of Mr. A. D. Davidson (May, Roberts & Co., Ltd.), the best thanks of the Society was tendered to the Committee of the Greystones Golf Club and the staff for the excellence of their arrangements, and a most successful and the last outing of 1934 was brought to a close. The visiting chemists included Mr. T. Toher (Sligo), Mr. Stephen Whelan (Cork) and Mr. J. McDonnell (Skerries), in addition to a representative attendance from Dublin and district.

Pharmaceutical Society of Ireland

The annual meeting of the Pharmaceutical Society of Ireland will be held on Monday, October 1, at 7.30 p.m., at the Society's headquarters, 67 Lower Mount Street, Dublin. At the Council meeting to be held on Tuesday, October 9, the election of president, vice-president and treasurer of the Society will take place. The various committees set up by the Council will also be appointed. —The scholarship examinations held recently by the Pharmaceutical Society of Ireland resulted as follows:—1st class scholarship won by Mr. Archibald McKane; 2nd class scholarship won by Mr. Thomas Hopkins. Certificates of having passed with merit were awarded to the following (arranged in order of merit):—Mr. Arthur B. Curran, Miss Amy Patricia Kellett, and Mr. Michael Duffy. Mr. McKane is the son of the late Mr. W. J. McKane, Ballina, co. Mayo. He has been a prize-winner on four occasions during his courses at the Society's schools, obtaining three firsts and one second.

Brevities

Mr. P. J. Sheehan, L.P.S.I., is opening a pharmacy at Strokestown, co. Roscommon.

Mr. J. E. Connor, Ph.C., Newry, has been appointed vice-chairman of the Newry Local Education Committee.

A new pharmacy will shortly be opened by Mr. John Loughnane, L.P.S.I., at Gaeltacht Park, Whitehall, Dublin.

Mr. G. B. Johnston, Ph.C., Coleraine, has been appointed secretary for the Supernumerary Fund of the Irish Methodist Church in the Synod of Londonderry.

Mr. A. T. Hardy, Ph.C., who won the McMullan cup in June, took part in the Irish Amateur Open Championship at Portmarnock, but was defeated in the third round.

Topical Reflections

By Xrayser

A Good Beginning

has been made by Mr. H. Wippell Gadd (p. 376) in compiling a list of pharmaceutical preparations which, as the Poisons List now stands, will come within Part I or Part II of the List. Presumably he is anticipating the list which has been promised to us of all articles that come within the two parts of the Poisons List which will be published officially, but will have no statutory authority. I understand that a large number of objections and suggested alterations to both Lists have been sent in to the Poisons Board.

That Hardy Annual,

the Chemists' Exhibition, is with us again; this is the second year it has been held in September, instead of, as used to be the case, in May. The change from spring to autumn has no doubt proved that the decision of the organisers to make such a change was a good one; the average chemist is much more interested in buying at the beginning of autumn than in May. As a visitor to the Exhibition since its start I have been struck by the decrease in the number of purely pharmaceutical houses exhibiting and by the increase in the number of those firms who specialise in "side-lines," including in this description the perfume and toilet requisite houses. This, I suppose, is an indication of the changing character of pharmacy. Quite recently I had an opportunity of carefully and critically inspecting a considerable number of windows of pharmacists in several towns, and I was impressed with the number of windows in which nothing of a pharmaceutical nature was on view, and but for the fact that some indication appeared upon the facias that the shops were those of chemists they might well have been taken for hairdressers' establishments! The Chemists' Exhibition, therefore, appears to reflect correctly the needs of the average chemist and druggist.

The Attractive

"Buyers' Guide" for the Christmas trade in last week's issue is a reminder of the near approach of the festival. I appreciate the practical hints on organising for the "rush" business, which I hope will come to pharmacists this year. If possible, I suggest that a special part of the pharmacy be devoted to the display of gifts; even the domestic sitting-room, if close to the shop, could be pressed into service: it is a great advantage if customers can walk about and make their choice in comfort and without any feeling of hurry. There is no reason why some suitable seasonal decorations should not be attempted. It is always good business to pack willingly and cheerfully any article for post—many a sale is made by the offer to take over the packing and posting of gifts, usually a trouble to the giver, if the recipient does not live in the neighbourhood. I am certain that the average pharmacist does not make full use of descriptive cards with which to introduce his goods to the notice of the customer. Too much descriptive matter is not required; three or four lines, each with four or five words, will be sufficient. The "talking" card is in its infancy, but those who use them bear testimony to their sales production.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

B. M. LYONS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, etc. R.O.: 157 Lodge Lane, Liverpool.

JACINTHE RAYNER, LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, opticians, etc. R.O.: 2 Club Buildings, Datchet.

STATION PHARMACY (SIDCUP), LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, etc. Secretary: H. L. Wilson, 16 Tooks Court, E.C.

HOCKLEY HARRISON, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of produce and general merchants and brokers, manufacturers of and dealers in chemicals and perfumery, etc. R.O.: 16 Water Lane, E.C.

CHEMICAL RESEARCH AND DEVELOPMENT TRUST, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, chemical research workers and druggists, patent medicine proprietors, etc. R.O.: 7 Mandeville Place, Wigmore Street, W.1.

ANGLO-POLISH AND CONTINENTAL TRADING CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of exporters of pharmaceutical, medicinal, chemical, industrial and other preparations, etc. Solicitors: Courts & Co., 116 Fenchurch Street, E.C.3.

MORISON, BAILEY & CO., LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, detergents, disinfectants, antiseptic and preservative compounds, etc. R.O.: 10B Gladstone Road, Southall, Middlesex.

VETEMOL LABORATORIES, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and selling agents for certain articles to which the trade mark "Vetemol" may be applied, manufacturers of and dealers in embrocation, liniment, oils, etc., and to acquire the trade mark No. 533,309. R.O.: 8 London Road, Kingston-on-Thames, Surrey.

BARKING ZINC OXIDE, LTD. (P.C.).—Capital £40,000. Objects: To acquire the undertaking of Wharf Properties, Ltd., and to carry on the business of manufacturers, exporters and importers of and dealers in pigments, lakes, dyes, colours, coal-tar, gas-tar, chemicals, minerals, ores, drugs, oxide of zinc, etc. The first directors are to be appointed by the subscribers. Solicitors: Lovell White & King, 5 Thavies Inn, E.C.1.

TORO TABLET CO., LTD.—The Registrar of Joint Stock Companies has sanctioned the change of name of this company to TORO SOAP CO., LTD. The address is unchanged at Castle Bromwich, Birmingham.

ENO PROPRIETARIES, LTD.—A public issue of 4,000,000 ordinary shares of 5s. each at 11s. per share is notified with the lists opening on Friday, September 28. One million 5½ per cent. cumulative preference shares of £1 each have been issued to the London & Yorkshire Trust, Ltd. Such shares are being placed privately by the Trust at 21s. per share, payable upon application. Bankers, Lloyds Bank, Ltd., from whose branches prospectus and application forms may be obtained. Registered office of the company, 160 Piccadilly, W.1.

GENATOSAN, LTD.—The seventeenth annual ordinary general meeting was held on September 25 at Winchester House, Old Broad Street, London, E.C. Sir Archibald Mitchelson, Bt. (the chairman), in his report, said: You will have observed that, on the whole, your company has had another satisfactory year and that we are again able to recommend a total dividend of 35 per cent., less tax, and to allocate £5,000 to general reserve, carrying forward £11,985 3s. 6d., against £10,662 18s. 3d. brought in. Your directors are seeking still further to broaden the scope of the company's operations by the introduction to the lay public of highly valuable products, some of which have hitherto been confined to the medical profession. For example, this month we have introduced to the general public the products known as Cystopurin. Genasprin brand of soluble calcium aspirin is a new product we are shortly introducing, which we claim to be the only stabilised calcium aspirin on the market. Other preparations are to be introduced in due course. I desire to express the thanks of the board for the loyal and excellent services throughout the year of the management and staff. The report and accounts were unanimously adopted.

IRISH PHARMACEUTICALS, LTD.—The second annual meeting of shareholders was held at Wynn's Hotel, Dublin. Mr. C. J. Cremen, the chairman of the company, presided. The directors' report and accounts disclosed a successful year's trading. For the year ending June 30, 1934, the turnover was £15,565, which was an increase of almost 100 per cent. on the preceding year. The gross and net profit was well maintained. The chairman, in the course of his address, said: The board had the pleasure last year of presenting a report probably unique in the history of trading companies of this kind. It is with pleasure they now submit the report and accounts for the second year's trading, and they do so with the confidence that they have not only fulfilled their promises, but have consolidated the company's resources. The sales of the company's proprietaries are steadily increasing, and I can reasonably forecast that the net profits to be presented to you next year will show a substantial increase. It must not be inferred that because we were primarily intended to serve the home market it should necessarily retain its products for that market. The possibility of openings elsewhere are being examined. Mr. S. McCauley, managing director, moving the adoption of the report and accounts, said that in building up the business they had not the benefit of protective tariffs, as so many people seemed to believe. Indeed, that argument had been advanced so often as the reason for their success that he wished to refute it emphatically. They were still hearing about the bogey of retail chemist directors being in a position to know the business that individual customers were doing with the company. He wished to repeat that he personally was in complete control of the internal management, and the other directors had no access to the ledgers. Mr. Geo. Hewson, M.P.S.I., Ballina, seconding, congratulated the chairman and directors on their management of the concern. Dr. Magner, Fermoy, supporting, asked when the company would start the manufacture of chemicals and galenicals. Mr. McCauley, replying, said that within a short period the company hoped to undertake other activities. The directors' report and accounts were unanimously adopted. Mr. A. C. Boles and Mr. T. Costello, retiring directors, were re-elected. A dividend at the rate of 5 per cent. per annum was declared.

Bankruptcy Report

Re Arthur Hilton, 66 Higher Bridge Street, Bolton, "druggist." The public examination was held recently at the Court House, Bolton, when the statement of affairs showed liabilities of £326 15s. 5d., with a deficiency of £251 3s. 8d. The debtor stated that he was not a fully qualified chemist, but after working as an assistant for a firm of cash chemists he bought the druggist business at the above address. It was sufficient to provide a living, but owing to the closing of some works in the district the takings declined. The examination was closed.

Gazette

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

EDWARDS, D., 2 Bedwas Place, Penarth, chemist.

Birmingham Analyst's Report

THE report of the Birmingham city analyst (Mr. H. H. Bagnall, B.Sc.) for the second quarter of 1934 is chiefly concerned with samples outside the scope of the drug trade. The following passages are of interest:—

LIME WATER.—This article should contain, according to the B.P., not less than 0.15 per cent. of calcium hydroxide. Sample —— contained only 0.06 per cent. A formal sample, however, bought during the following week contained 0.16 per cent.

AMMONIATED QUININE TABLETS.—In one sample, ——, of half-drachm tablets, while the quinine content was practically correct, only 4 per cent. of the proper amount of ammonia was present. The vendor obtained his supplies from a firm of reputable chemists and agreed to get into touch with them with a view of ensuring that future supplies would be of correct composition. The attention of the vendor was also called to the fact that the boxes containing the tablets were not labelled with the name of the article, nor was there any indication given of the strength of the tablets.

TURPENTINE.—An informal sample, ——, contained about 20 per cent. of mineral oil, and an official sample bought a fortnight later was similarly adulterated with 25 per cent. of mineral oil. The vendor was prosecuted and fined £1, the defence being that paraffin had accidentally been poured into the drum containing the turpentine. Another informal sample, ——, contained about 10 per cent. of mineral oil, but a formal sample was genuine.

VINEGAR.— —— contained only 3.7 per cent. of acetic acid, and was, therefore, 8 per cent. deficient of the amount recognised by the trade as the minimum percentage allowable. A formal sample was of the same composition. —— consisted of artificial vinegar, and the same article was supplied in response to a request for malt vinegar. ——, bought as table vinegar, was supplied in a bottle labelled "Table Vinegar. Absolutely Pure Wood Vinegar." Table vinegar should consist of malt vinegar, and such a label is a contradiction in terms. The packers were cautioned.

Employment in the Drug Trade

SOME interesting statistics concerning the number of retail chemists and assistants are included in the Occupation Tables of the 1931 Census, which have just been published by H.M. Stationery Office. The Census records a total of 30,940 persons normally occupied in the retail distribution of "drugs and druggists' sundries." Of these, 7,064 are employers or salaried managers; 2,944 are returned as "working on own account" (i.e. small retail chemists running "one-man" businesses); 19,535 are shop assistants, salesmen, canvassers or other employees; and 1,397 are out of work.

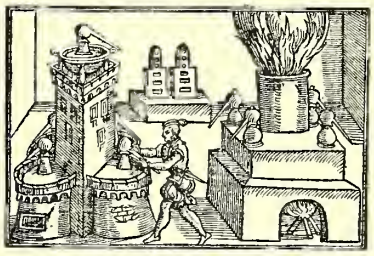
Area statistics show that these 30,940 retail chemists and employees are distributed geographically in the following proportions:—37.0 per cent. in the Home Counties (21.8 per cent. in Greater London alone); 31.7 per cent. in the Northern Counties; 15.6 per cent. in the Midlands; 4.3 per cent. in the Eastern Counties; 5.7 per cent. in the South-Western Counties; and 5.7 per cent. in Wales.

Of the total number of persons normally engaged in the trade, 28.0 per cent. are under twenty-one years of age; 29.8 per cent. are between the ages of twenty-one and thirty; 21.5 per cent. are between thirty and forty-five; 14.4 per cent. are between forty-five and sixty; and 6.3 per cent. are over sixty years of age. There are 10,638 women occupied in the trade, over one-third of the total; 522 of them are employers or salaried managers; 327 are retail chemists working on their own account; 9,271 are shop assistants, saleswomen and canvassers; and 518 are returned as "out of work."—K. F. (30/7).

Distilling in 1576

MENTION was made, in our Special Issue of June 30, 1934 (p. 727), of George Baker's "The Newe Jewell of Health," translated from Gesner. A few of the quaint forms of apparatus used in distilling, as shown in Baker's book, are now reproduced by way of pendant to that brief mention.

The first of our illustrations shows two types of furnace. Each had its uses, and directions for the construction of each are given in the book. The figure of a man standing by the one on the left side suggests the average height of the structure: it appears, however, that considerable scope was left for the individual preference of the owner, as on one page we read "in heygth about a yarde and a halfe, or twoo or three, or so hygh and large as a man pleaseth." Our second illustration is said to represent distillation by means of the heat of sand, which "ought rather to be wrought and done in the Monethes of July and August"; the time occupied was "fortie dayes togither." Our



third illustration shows the preparation of a "Lute or Morter, for to parget, couer, and arme or fence the vessels, to thende that those cracke not by violence of the fire." The recipe commences: "Take the fine pouder and well searsed of Tyles, the pouder searsed of the beatings of Iron about the Anuyll, the powder searsed and very fine of Sande, of eche one pounde, of fat Lute or Cley well cleaning three poundes." The lady at the left side of the picture is evidently doing the searcing. Nothing is more obvious, in reading scientific treatises of this, and even of somewhat later, date, than the confusion of method and loss of efficiency due to redundancy of apparatus. The three illustrations printed here are from the British Museum copy of the book, and are reduced in size from the original woodcuts. There must be in this book alone about fifty illustrations showing quaint devices for varying methods of distillation according to the needs, or supposed needs, of different types of material. Readers who have a copy of our Special Issue of January 30, 1904, will find (on p. 182) an interesting illustration of numerous types of apparatus taken from an eighteenth-century encyclopædia.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held on September 21, Mr. J. E. Connor occupying the chair in the absence of the president (Mr. John Maxwell) and the vice-president (Mr. William Martin). There were present also Messrs. S. S. Badger, J. F. Grimes, Samuel Gibson, Fred Storey, W. S. Taylor, S. H. Forrest, H. F. Moore, W. C. Tate, Professor Small, Dr. S. E. A. Acheson and Sir Thomas McMullan. Mr. D. L. Kirkpatrick (secretary) was in attendance.

A letter was read from Mr. William Martin (vice-president), who is in a nursing home, expressing regret that he was unable to attend. THE SECRETARY said he had seen Mr. Martin that day. He had had a minor operation and would have another operation in a few weeks. MR. BADGER expressed the sympathy of the Council with Mr. Martin. MR. STOREY joined in the expression and a letter of sympathy was directed to be sent.

THE CHAIRMAN referred to the death since the last meeting of Professor Earls, head of the Municipal College of Technology, Belfast. He said that the removal of Professor Earls was a loss to the Society and to the community at large. He had had lifelong experience in educational affairs and had brought the Technical College, Belfast, to a high state of efficiency. He moved that a letter of condolence be sent to Mrs. Earls. MR. STOREY, in seconding, said that Professor Earls took a great interest in the Society. Two days before he was taken ill he had been asking him how they were getting on, and the news of his death had come as a great shock to them all. From the inception of the Society the Professor had been a great help to them, not only personally, but through his officials. It was due to him that they had such facilities for pharmaceutical studies. He had gone to no end of trouble to get the laboratories fitted up and equipped in a manner that very few schools could equal. MR. BADGER said Professor Earls was always out to assist the pharmaceutical classes. The resolution was passed by a standing vote, and the secretary was asked to send a resolution of sympathy also to the Technical Subcommittee through which Professor Earls dealt with the Society.

THE SECRETARY reported the receipt of a calendar from the Pharmaceutical Society of Great Britain.

NOMINATIONS

It was reported that the Senate of Queen's University had nominated for membership on the Council Professor James Small, D.Sc., and Professor E. B. C. Mayrs, M.D., the latter in the place of Dr. Fielden, who is no longer associated with Queen's University.

The Ministry of Home Affairs wrote re-nominating Sir Thomas McMullan as representative of the wholesale drug trade on the Council.

The Northern Ireland Branch of the B.M.A. wrote suggesting the re-nomination of Dr. S. E. A. Acheson as representative of the Medical Committee of Northern Ireland. The letter pointed out that no meeting had been held before the Council and that the nomination would require formal approval.

EDUCATION COMMITTEE

The Education Committee reported that they had resolved that the certificate of apprentice be granted to the following:—Victor Douglas Skeeles, Arthur Frank Bromley, Thomas Ritchie, Joan Godfrey, Cyril Morgan Jones, Thomas Graham Phillips, Margaret Coulter, James Butler, William Joseph Elder, Thomas Magowan, and that the winter examinations be held in the week beginning December 3, 1934, the entries to close on Friday, November 9, 1934. On the motion of MR. BADGER, seconded by MR. GIBSON, the minutes were adopted.

FINANCIAL STATEMENT

MR. SAMUEL GIBSON (treasurer) submitted the financial statement for the year, which showed a credit balance on the year's working of £711. This, he said, was very good, as the year had been a special one, owing to the opening of the new premises. They had spent £1,127 on furnishing during the year, and £1,697 altogether on the new premises.

It was decided to have the report printed and circulated for the annual meeting. The annual meeting of the Society was fixed for 7.30 p.m. on October 1 in the Society's offices. Messrs. Fred Storey and S. Gibson were appointed scrutineers for the ballot at the count of the votes in the election of October 1.

MEMBERS ELECTED

Messrs. Leo Murray, 448 Antrim Road, Belfast, and John McKenna, 35 Thomas Street, Armagh, were elected as members of the Society.

USE OF THE ROOMS

The question of students using the rooms during the winter evenings to see specimens, etc., was referred to the annual meeting. Several members suggested a nominal fee of one shilling so that there should be a check on those coming in, and it was emphasised that the Council wished to give the students all the help possible.

EDUCATIONAL FACILITIES

MR. CONNOR referred to the question of the facilities for teaching of botany and chemistry (Part I) in provincial towns. In Newry there were so few botany students the Urban Council refused to pay the expenses of the teacher. How were they going to cater for these classes? He would like, if a subsidy could be paid, a teacher to go round the districts teaching botany.

MR. BADGER said they had appointed a botany teacher in Magherafelt with seven students and charged four guineas per session. A class with over six students counted.

MR. CONNOR said the charge in Newry was more or less nominal.

PROFESSOR SMALL said the cure was to charge as they did in Magherafelt and the boys would then have to attend.

MR. CONNOR said that in Newry the majority of the students were, unfortunately, going on as assistants only. They would not go to the expense of coming to Belfast and qualifying. It meant that a second grade was being set up.

PROFESSOR SMALL said that would not happen if they had indentured apprentices.

MR. CONNOR stated the boys said the expense was too much. He allowed his own apprentices to come to Belfast. They said they got better teaching in Belfast and saw more.

MR. BADGER disagreed. He thought the teaching better where there were smaller classes.

SIR THOMAS MCMULLAN suggested a change of hour for the classes to the afternoon.

MR. CONNOR replied that the Government would not pay then. They insisted on evening classes.

MR. TAYLOR said that the charge in Enniskillen was four guineas. He thought that the Pharmaceutical Council should subsidise the country districts where necessary, but that suggestion had so far been turned down.

MR. CONNOR said the difficulty was the teacher's expenses coming to Newry. He would take the matter up with the principal of the Newry Technical School.

PROFESSOR SMALL suggested advertising.

MR. TAYLOR repeated that the Council should subsidise the sending of a teacher to different country towns on different dates.

PROFESSOR SMALL said Newry had not advertised and only charged a small fee. There should be some self-help on the part of Newry in the matter. Some of the county agricultural inspectors might have the necessary qualifications.

MR. CONNOR said that the secretary was coming to Newry and he would see the principal with him.

EXPRESSION OF APPRECIATION

It was decided to place on record an expression of appreciation of the services of Dr. Fielden on the Council since its formation.

MR. STOREY said the doctor had given them valuable service and had been one of the examiners.

MR. BADGER said they appreciated the doctor's services and were sorry to lose him.

MR. CONNOR said they wished Dr. Fielden every happiness now that he had, under the age limit, severed his connection with Queen's University, which he had represented on the Council.

Accounts were passed and the Council rose.

Council Election

Voting papers in connection with the annual election to the Pharmaceutical Council of Northern Ireland were sent out on September 22. The only contest is in the pharmacists' section, in which there are six candidates for four seats, viz., Messrs. S. S. Badger, S. H. Forrest, C. Abernethy (new), J. Trevor Nicholl (new), H. A. Johnston (new) and A. Wilson (new). The count will take place on Monday, October 2, and the result will be declared at the annual meeting of the Society.

Pharmacy in Syria

By Grace A. Milner

MORE correctly still, it should be "Pharmacy in Damascus." Of course, it affected me more intimately under very European conditions in a nice pharmacy at the British hospital, where the dispensing was very much the same as in any hospital at home except that "B.D.H." or "P.D. & Co." were not on the 'phone and we had to rely as far as possible on the annual order from home (which needed to be pretty extensive), and towards the end of the year the doctors were pestered with little slips from the pharmacist, "Out of ——" or "Please don't prescribe ——," etc.

But the surroundings and patients were totally different, though fundamentally one found the same longings and desires, the same sorrows and joys and a sense of humour. They were tremendously hospitable, though we hadn't to take too literally their "You are welcome—come in and drink coffee with me." Living in the hospital I came very much more in contact with the patients than one does in England, and I spent many a happy afternoon in the wards playing the gramophone to them, which they loved tremendously. We would gather the crippled children from the other wards on to one bed for the entertainment. My activities were by no means confined to pharmacy, for I had most of the anæsthetic work of the hospital to do, and also the *x*-ray developing. Out-patient days were full of surprises and were never boring, though on a broiling day in June, when the patients as well as myself were hot and tired, it was a tremendous relief to close down the trap window and murmur "Khalas" (finished).

PEASANT WITH BABY WEARING FEATHER TO KEEP OFF THE EVIL EYE

But—pharmacy in the town? I can only give an outsider's opinion, as I have never been "behind the scenes." It is very much in the growing state, in fact almost grown up in some quarters, for during the past ten or fifteen years, under a European mandate, it has progressed by leaps and bounds. On the one hand they have the very modern and up-to-date pharmacy where everything may be obtained from a pill or a cachet to the latest baby foods or toilet preparations, cameras and surgical apparatus. And on the other hand a tiny portable store with the quack apothecary selling his bottle of "dowa" that is guaranteed to cure everything, or a "love potion" which will bring blessing upon the poor woman who heretofore has not fulfilled her destiny and presented her lord and master with a son. This apothecary is prepared to do anything, extracting teeth or giving an injection, the latter being in great demand and considered a cure for all ills. In the hospital, if we could only give them "the needle," they felt that at last something was being done.

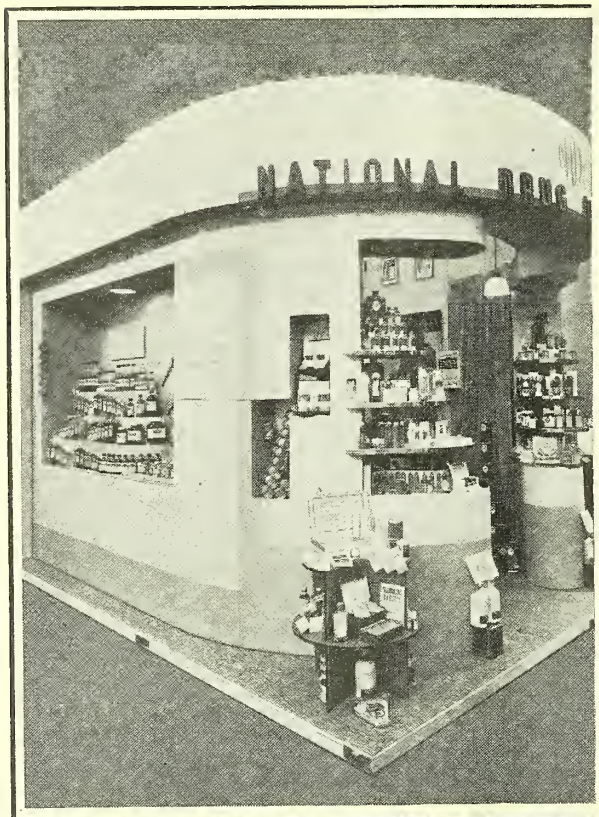
There is one pharmacy I knew where there was a qualified pharmacist who held a regular clinic every morning and treated "eyes" and every possible ailment, external and internal. He was well patronised by the poorer community, who looked on the pharmacist as a "wise man"—an idea that is somewhat dying out in this country.

A DAMASCUS BAZAAR SHOWING NATIVE STALLS

There is a medical and pharmaceutical college in Damascus, but as the qualification gained there is only recognised in Syria, many prefer to go to Europe or to the American University at Beyrut (Syria) for their training. A tremendous lot is now being done for the health of the people. Apart from the hospitals and private practices there is a welfare clinic where advice is given and milk obtained free of charge. There is also a fine public health building, where experiments are being carried out under the most hygienic conditions, and where they are now preparing many of their own vaccines. They are not yet manufacturing many of their own galenicals, these being obtained from Europe. I think I am correct in saying that the French Codex is the only pharmacopœia generally recognised in the country of Syria.

Chemists'

THE forty-third Chemists' Exhibition was opened on September 24. The opening ceremony was performed by Mr. John Keall (president of the Pharmaceutical Society), who was supported by many persons of prominence in the trade. Mr. Keall said there had been many changes in the last few years, and he thought that, although manufacturers might sometimes feel that the first thing in life was the widest possible distribution, consideration should be given to the principle of "reservation" because he realised that in this way they would help towards the consolidation of pharmacy. Mr. E. T. Neathercoat (ex-president of the Pharmaceutical Society), in proposing a vote of thanks to Mr. Keall for opening the Exhibition, said the Exhibition had established for itself a very definite position in the drug trade and in the pharmaceutical life of this country. In the course of his remarks Mr. Neathercoat referred to the necessity for keeping up the standard in packed pharmaceutical preparations even though in certain circumstances it was necessary to pack 6d. lines to meet competition. Mr. Herbert Skinner seconded the vote of thanks to Mr. Keall, which was enthusiastically honoured. Mr. A. C. Merrin (editor of "The British and Colonial Pharmacist") presided at the luncheon which followed the opening proceedings. Dr. F. W. Crossley-Holland submitted the toast "Success to the Chemists' Exhibition." He said it was fitting that the chairman of the British Pharmaceutical Conference should be entrusted with the toast because there was perhaps a closer relationship between that Conference and the Exhibition than might appear on the surface.

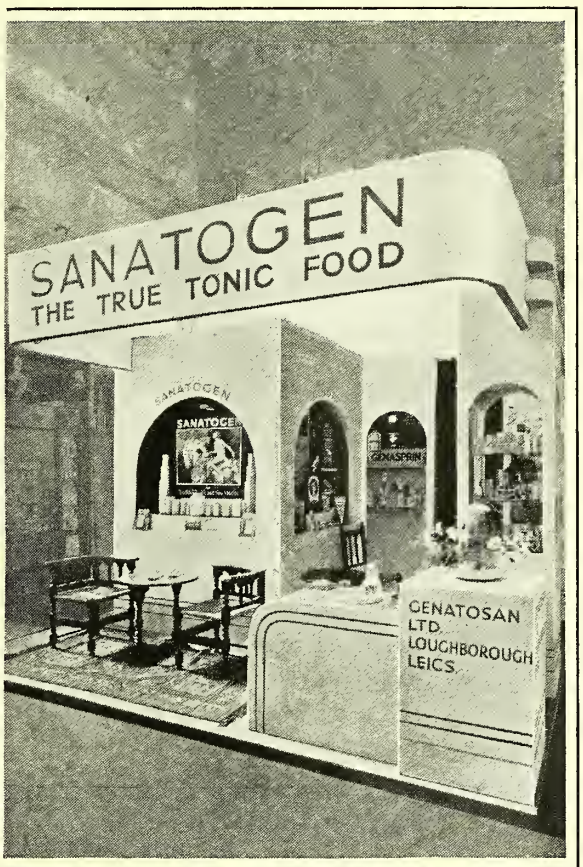


Left, Top: National Drug Industries, Ltd.
Below, Left: County Perfumery Co.
Right: Macleans, Ltd.

Exhibition

He likened the Exhibition to a post-graduate course where pharmacists could learn not only how to buy but how to sell.

Mr. Merrin, in reply, said that, apart from the opportunities of immediate profit presented, the records of the Exhibition held many examples of prosperity on a longer and firmer foundation. The presence that day at the luncheon of so many ladies and gentlemen of prominence in the calling was a testimony that the Exhibition reflected credit on the craft. Mr. Arthur Mortiner (secretary of the Wholesale Drug Trade Association) proposed the toast of "The President of the Pharmaceutical Society." He referred to the many activities of Mr. Keall and his efforts on behalf of the pharmacists of the country. Mr. Keall, said Mr. Mortimer, had used Father Time well, and in return Father Time had laid his hand on him lightly. Mr. Keall, responding, referred to the question of the responsibility for the new building of the Pharmaceutical Society. They were pledged to the new building because they realised that British pharmacy was worthy of being housed in a way that should be emblematic and characteristic of one of the most important sections of the community. He believed that when the time came for it to be thoroughly demonstrated, they would be able to show that they had acted deliberately, decisively and with the full knowledge (financially and otherwise) of the reasons which caused the Council to make that decision. In closing, Mr. Keall expressed his thanks and also that of the company to Mr. Merrin and the promoters of the Exhibition for the delightful hospitality extended to them that day.



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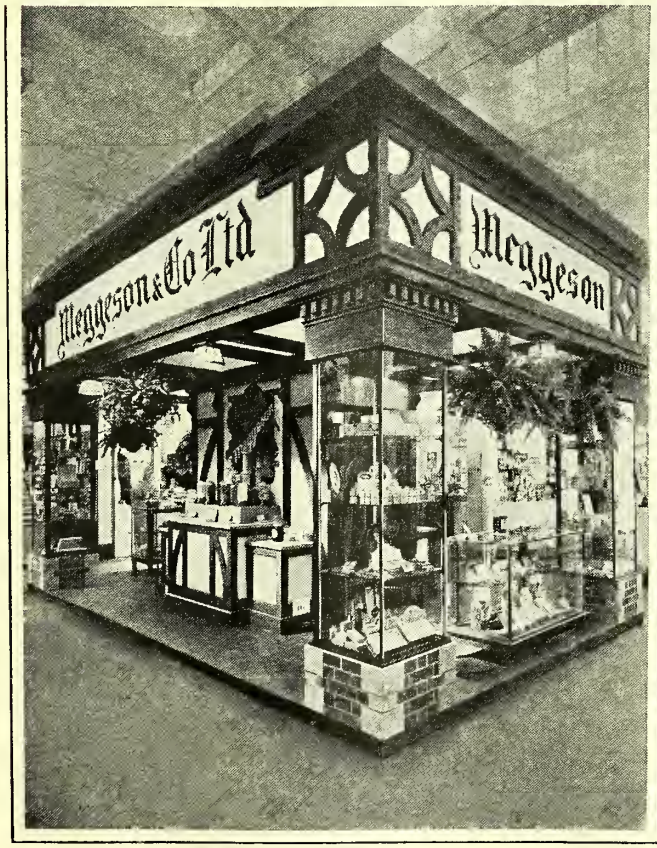
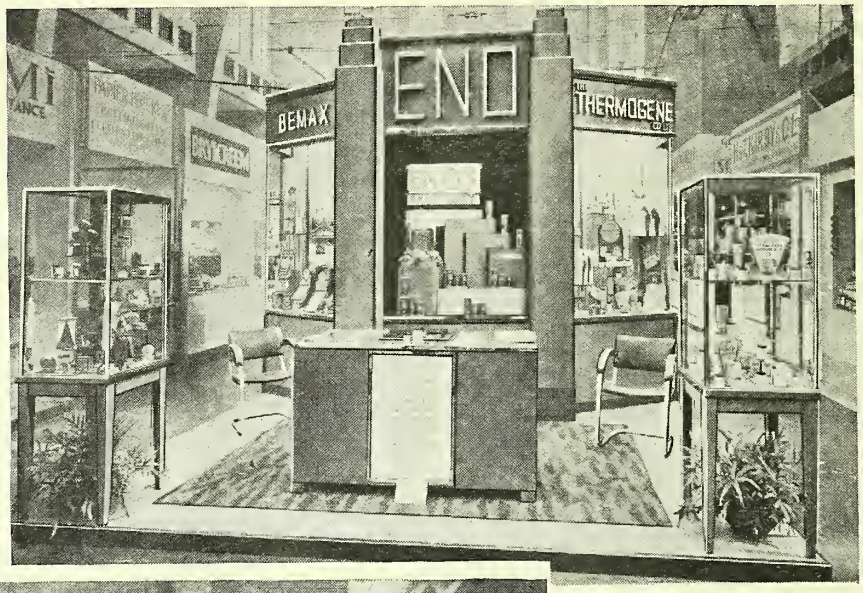
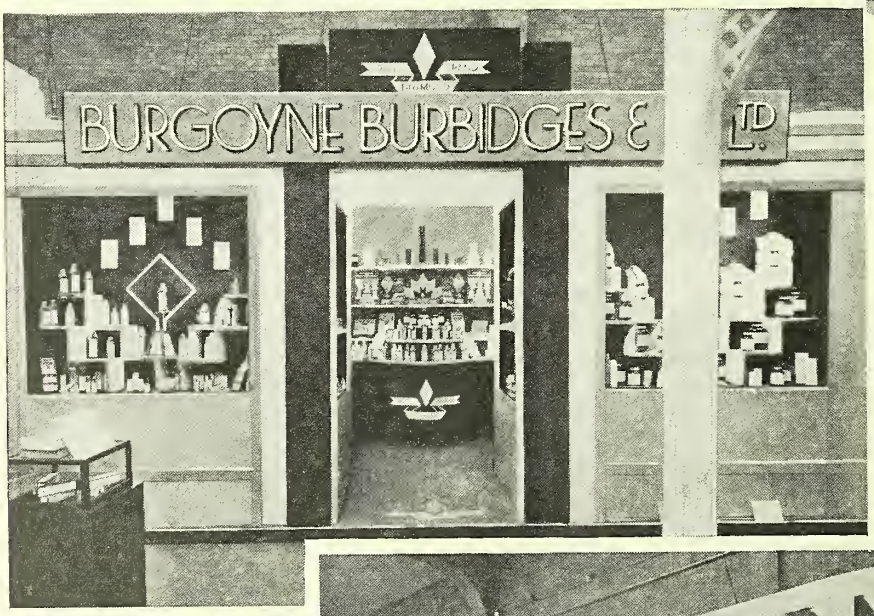




Above : J. C. Eno, Ltd.



Left : Burgoyne, Burbidges & Co., Ltd.

Below : Cussons, Sons & Co., Ltd.

Above : Wright, Layman & Umney (1932), Ltd.
Right : Howards & Sons, Ltd.
Below : Parke, Davis & Co.

The British Pharmaceutical Codex, 1934

THE interval between the publication of the new British Pharmaceutical Codex and that of its predecessor is eleven years, one year less than the interval between the publication dates of the Codex of 1911 and the Codex of 1923. Most pharmacists, on taking a volume of this kind into their hands for the first time, turn first to the table of contents and then to the preface. The body of the work is divided into four parts:—(1) General Monographs on Chemicals, Crude Drugs, etc.; (2) Surgical Dressings; (3) Formulary; (4) Appendices. The appendices number fourteen, and deal with such subjects as atomic weights, alcohol dilution, hydrogen-ion concentration, and colloidal solutions.

The Preface

The preface is of particular importance by reason of its containing an explanation of the scope and purpose of the book. The meaning of such common terms as "alcohol" and "ash values" will be found there, together with several useful items of information regarding substances handled daily in the pharmacy. We learn, for instance, that "an arrangement has been made between the Council of the Pharmaceutical Society and the Manchester Testing House by which samples of cotton-wool, not more neppy than the standard sample, may be obtained on application." On pp. xviii-xx of the preface is given a list of about 200 preparations of the British Pharmacopœia, 1914, omitted from the B.P. of 1932 but now taken over as preparations of the Codex; this is followed by the names of twenty-nine preparations from the 1914 B.P. not included in the Codex, but having their composition explained, "where necessary," in Part 1. The most familiar of the twenty-nine is vinum ipecacuanhæ. On the important question of the extent to which the Council of the Pharmaceutical Society (which is presumably responsible for the preface) wishes the Codex to be regarded as a legal standard we have the following paragraph:—

> "One of the principal features of the book is the inclusion of a series of requirements and tests under the heading of 'Standard' which provides for manufacturers, producers, and all engaged in the preparation of medicaments, a more uniform standard than has been available hitherto for many compounds and preparations not included in the British Pharmacopœia. In this connection it should be noted that the Food and Drugs (Adulteration) Act requires a drug to be of the nature, substance and quality demanded by the purchaser, but provides no standard by which the quality is to be determined. In their search for a standard, the courts have turned to the British Pharmacopœia, which has become a presumptive standard for the articles contained in it. The standards of the British Pharmaceutical Codex are those which experience has shown to be desirable as criteria of purity for substances when used for medicinal purposes, and to be such as may be attained without undue difficulty or expense. As in the case of the British Pharmacopœia, the standards have been designed to be applied solely when the substances are sold for medicinal purposes."

The following sentence explains the difference between the new Pharmacological Index and that of the 1923 Codex:—"It has been thought advisable to discontinue the inclusion of a general index of drugs based mainly on their therapeutic use and on diseases, and to replace it by a list based, as far as possible, upon pharmacological principles." The reservation "as far as possible" is significant, as at the end of the Pharmacological Index we find (p. 1627) a list of "Substances used for their Specific Effect in Certain Diseases." Greatly daring, the Codex differs from the British Pharmacopœia in holding that it is "no longer advantageous or convenient . . . to continue the use of the word 'mil,' which has not been found acceptable for general scientific purposes." But five pages later in the preface we are told that millilitres are represented by "mil," and on p. 1535 we find the "millitre or mil" in a table of measures of capacity.

The Formulary

The Formulary, which will probably be the section most frequently consulted by the pharmacist in business, is perhaps the least interesting from the point of view of novelty. True, attention is called in the preface to "several changes of importance." Some of these changes, however, have been forestalled in the present British Pharmacopœia; the panel chemists of the country have of late years their own National Insurance Formulary; and readers of THE CHEMIST AND DRUGGIST are constantly seeing new formulas in the quarterly "Progress of Pharmacy and Allied Sciences" or under other headings. The new Formulary occupies 372 pages of the book against 341 occupied by the 1923 Formulary. So far as we noticed, the changes made are all to the good, reflecting fresh developments (or, at any rate, ideas) in prescribing. Thus, the Marylebone cream of 1923 is replaced by an "Emulsio Olei Arachis," which, using arachis oil instead of linseed oil as a basis, adds solution of irradiated ergosterol, changes the emulsifying agent and drops the flavouring. The monographs constituting Part 1 have been thoroughly overhauled, and newer substances, which have apparently come to stay, like mercurochrome, have been systematically described.

The Appendices

The considerable expansion of the Appendices has involved a certain amount of rearrangement; test solutions and microscopical stains, for example, are merged in a much larger appendix entitled "Reagents." The tables for the dilution of alcohol occupy (with introductory matter) five pages, and include temperature corrections. The imperial-metric conversion tables are illustrated by two examples. Appendix IX, "The Determination of Foreign Organic Matter," gives a scheme, with diagram, for the microscopical examination of powdered drugs. The account of hydrogen-ion concentration (pp. 1596-1600) is illustrated by a chart. The Appendix dealing with colloidal solutions occupies rather more than six pages, and the Appendix on sterilisation six and a half pages. The final Appendix, headed "Substances with Proprietary Trade-Names," is differently arranged from and much fuller than its predecessor of 1923: the tabular form has been discarded and each of the paragraphs contains a brief description of the product mentioned, with the name of the house or houses from which it can be obtained.

In congratulating the Codex Revision Committee and its subcommittees on the completion of a book which will no doubt occupy a place of its own in British pharmacy for several years to come, we may add a few general comments. Subcommittees were formed for dealing with the following subjects:—Pharmaceutical chemistry, pharmacognosy, pharmacy, dressings, action and uses. On the members of these subcommittees the brunt of the work fell; and the editor, Mr. C. E. Corfield, B.Sc., F.I.C., Ph.C. (who is senior general secretary of the British Pharmaceutical Conference), must have had a particularly arduous task. The book is published by the Pharmaceutical Press, 23 Bloomsbury Square, London, W.C.1, at 35s.; it consists of xxiii + 1768 pages, an increase of 104 pages on its predecessor. We could have wished that a slightly taller and thinner volume had been evolved, and we know of no authority for the spelling "decolourised" (p. 1567); but these are minor matters. Paper and typography are alike excellent; and it must be added that the monographs in Part 1 bring together in concise form a mass of information which it would be very difficult for the average reader to trace in text-books and other scientific publications. In a word, the new Codex is quite up to date.

Marriages

BASTOW—DALLYN.—At Hunston Church, Sussex, on September 20, by the Rev. W. J. Bastow, B.A., Sidney William Bastow, Ph.C., Pereira medallist, elder son of the late Mr. Sidney Bastow, Ph.C., Chichester, to Phyllis Elizabeth, elder daughter of Mr. A. W. Dallyn, Hunston Manor.

HUDSON—PARKINSON.—At St. Mark's Church, Haydock, St. Helens, on September 12, John Charles Hudson, chemist and druggist, to Norah Mary Parkinson.

KILLACKY—KIERNAN.—At St. Andrew's Church, Westland Row, Dublin, on September 12, Patrick Joseph Killacky, M.P.S.I., Lincoln Place, to Mary Angela Kiernan, L.P.S.I., Clonrobert, Coole, co. Westmeath.

MURPHY—PARSONS.—At Rathmines Catholic Church, Dublin, recently, John Joseph Murphy, M.P.S.N.I., Ballymena, to Mollie Parsons.

NEWTON—ROBERTS.—At St. Michael's Church, Stourport, on September 10, Basil H. C. Newton, chemist and druggist, only son of Mr. T. H. Newton, chemist and druggist, Hull, to Viola M. Roberts, chemist and druggist, daughter of Mr. Walter C. Roberts, chemist and druggist, Stourport.

NICHOLSON—CHAMBERS.—At Hampstead, London, N.W., on September 8, William Ralph Isaac Nicholson, M.P.S., eldest son of Mr. T. T. Nicholson, M.P.S., Hampstead Road, N.W.1, to Muriel Alice Chambers, daughter of the late Mr. H. Chambers, Freehold Road, Ipswich.

PRINGLE—DAVEY.—At Daveyhulme Wesley Methodist Chapel, Manchester, on September 15, Arthur Gosling Pringle, chemist and druggist, to Clara M. Davey.

THOMAS—DIXON.—At Lymm, Warrington, Parish Church, recently, Evan Owen Thomas, chemist and druggist, Holyhead, to Florence Dixon.

TWEEDALE—GRAYSON.—At St. Luke's Parish Church, Dukinfield, Cheshire, on September 19, Eric Drinkwater Tweedale, chemist and druggist, to Dorothy Grayson.

URQUHART—ARNOTT.—At St. John's Church, Dunfermline, on September 19, Harry Ramage Urquhart, chemist and druggist, Peebles, to Martha A. G. Arnott, chemist and druggist, eldest daughter of Mr. A. B. Arnott, chemist and druggist, Cowdenbeath.

WARD—CARR.—At St. Mary's Church, South Benfleet, Essex, on September 15, Alfred John Ward, M.P.S., to Dorothy F. Carr.

YATES—MYCOCK.—At All Saints' Church, Grindon, Staffs, on September 12, H. Yates, chemist and druggist, to Betty Mycock.

Deaths

EVANS.—At Westcliff-on-Sea, on September 26, Mr. Alfred Henry Evans, senior director of Evans, Gray & Hood, Ltd., 13 Fish Street Hill, London, E.C.3, aged seventy-five years. Until the last few years Mr. Evans spent a very active career in the spice and drug trade, and was a well-known figure in Mincing Lane and on the corn market.

MANSFIELD.—At Priory Lodge, Blackheath, London, S.E.3, on September 24, Mr. George John Mansfield, late of Swansea and Singapore, aged eighty-five. The late Mr. Mansfield was the father of Mr. G. W. Mansfield, governing director, Wilson & Mansfield, Ltd., 15 Philpot Lane, E.C.3.

SMEDLEY.—At Somerton, on September 14, Mr. Walter Graham Smedley, Ph.C., aged sixty-one.

WALSHE.—At Baggot Street Hospital, Dublin, on September 20, Mr. Dominic Walshe, L.P.S.I., Swinford, co. Mayo.

Personalities

COUNCILLOR J. WATERS, chemist and druggist, Darlington, is mayor-elect of the borough.

MR. W. ALLIS, J.P., chemist and druggist, Alford, Lincs, recently celebrated his eighty-first birthday.

MR. JOHN CHRISTIE, chairman of the South African Pharmacy Board, recently left there on a visit to this country.

MR. J. J. LAWS, chemist and druggist, South Kensington, London, S.W.3, was entertained to dinner at Bristol on September 13 by the West Country Advisory Committee of the Institute of Chemists-Opticians.

Business Changes

BOOTS, LTD., are opening a new branch in Fleet Street, Bury.

TIMOTHY WHITES, LTD., have opened a new pharmacy at 7 and 8 Stall Street, Bath.

THERAPEUTIC PRODUCTS, LTD., have removed to Aintree Road, Perivale, Middlesex.

HALTON & SON, LTD., chemists, Douglas, Isle of Man, are removing their pharmacy from Market Hill to 84 Strand Street.

ON and after September 29 the address of J. Flint, Sandoz Products, will be 134 Wigmore Street, London, W.1. Telephone: Welbeck 8796.

WOODS, chemists, 37 High Street, Slough, have acquired the goodwill of Walden & Drewett, chemists, 69-71 High Street, Slough.

MR. H. A. BAKER, chemist and druggist, has taken over the pharmacy carried on for many years at 44 High Street, Lewes, by the late Mr. J. C. Lloyd, chemist and druggist.

THE address of Sharp & Dohme, Ltd., from October 1, will be changed from 252 Regent Street, London, W.1, to 76-78 City Road, London, E.C.1. Telephone: Clerkenwell 7661.

THE METAL & GENERAL AGENCY, Leadenhall Buildings, 1 Leadenhall Street, London, E.C.3, has been merged with Grosscurth & Luboldt, Ltd., Cory Buildings, 117 Fenchurch Street, E.C.3, as from September 22.

L. LE PERSONNE & CO., 99 Cannon Street, London, E.C.4, are removing, on October 1, from that address, where they have carried on business for the last forty years, to 7-8 Old Bailey, London, E.C.4. Telephone: City 3852.

Coming Events

Tuesday, October 2

National Pharmaceutical Union, Birmingham Branch, and Birmingham and District Branch of the Pharmaceutical Society, Imperial Hotel, Temple Street, at 8.30 p.m. Joint meeting.

Wednesday, October 3

Birkenhead and Wirral Association of Pharmacists. Opening meeting. "Ciné Night," by Mr. H. Hirst.

Manchester Pharmaceutical Association and Manchester, Salford and District Branch of the Pharmaceutical Society, Manchester Limited Restaurant, from 7 p.m. to 1 a.m. Reception and social.

Thursday, October 4

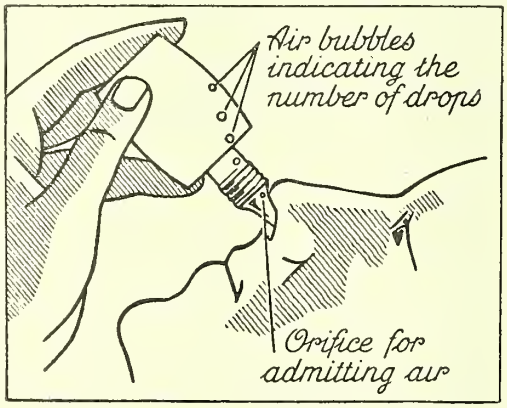
Manchester Pharmaceutical Association and Manchester, Salford and District Branch of the Pharmaceutical Society, Victoria Hotel, at 8.30 p.m. Meeting.

National Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Mr. G. P. Forrester, Editor of THE CHEMIST AND DRUGGIST, on "Colour Photography" (lantern lecture).

Sheffield and District Branch of the Pharmaceutical Society, Fitzwilliam Room, Grand Hotel, Sheffield, at 3.30 p.m. Annual meeting and prize distribution.

Trade Notes

ANAQUINTINE.—The Anglo-French Drug Co., Ltd., 12 Guilford Street, London, W.C.1, are placing on the market a preparation named Anaquintine for the treatment of nasal affections. Anaquintine is a solution of

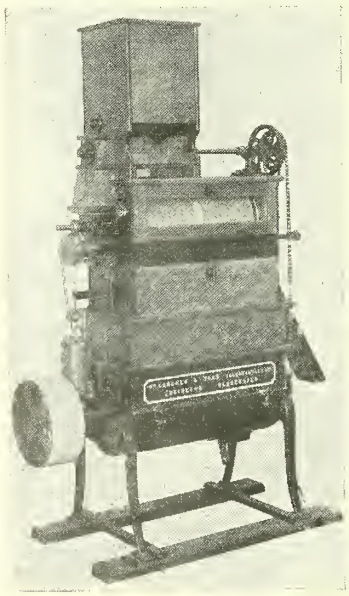


ephedrine, thymoform, eucalyptol, menthol, benzaldehyde and a butyl paramino benzoate, in poppy-seed oil, presented in a vial provided with Dr. Lescène's patent drop-counting instillator, which ensures asepsis and an easy method of regulating dosage.

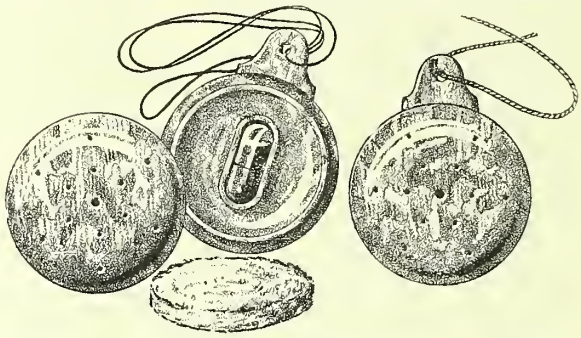
VENO DRUG CO., LTD., Manchester, 16, make an interesting announcement regarding Venos Cough Cure, Dr. Cassells Tablets and Germolene in the advertising pages of this issue.

PHARMAL HOT WATER BOTTLE.—The Leyland & Birmingham Rubber Co., Ltd., Leyland, Lancs, ask us to call the attention of our subscribers to the fact that it is the Pharmal Nursery hot water bottle which retails at 2s. 6d. The 12 in. and 8 in. Pharmal bottle should still be sold at 2s. 11d.

A SIFTING, SPRAYING AND MIXING MACHINE.—William Gardner & Sons (Gloucester), Ltd., Bristol Road, Gloucester, have recently perfected a machine which should interest most manufacturers connected with the drug trade. The apparatus consists of the company's fine powder dressing machine, whereby the material is sifted through a very fine silk gauze. The special barrel on which the silk gauze clothing is fitted is designed for ease of changing, in order that silk clothings of various meshes can be used. After sifting, the powder, in falling, comes in contact with the vaporised perfume or liquid, takes up its required amount and then falls into the mixing chamber, where the material is finely and intimately blended, before discharging through the outlet into the various receptacles. This patent mechanical sprayer has been working on larger models for a number of years, but this model should be a decided acquisition for smaller manufacturers of toilet powders.



CANDA IODINE LOCKETS.—Clay & Abraham, Ltd., 87 Bold Street, Liverpool, 1, have brought out a new product in the form of an iodine locket. This differs somewhat from those we have hitherto examined. The exterior is of a moulded material and available in seven



different colours; the iodine is contained in a gelatin capsule. By this means no diffusion of iodine takes place until the capsule has been perforated by pushing a pin through a hole in the outer case. Canda lockets are packed one dozen in a box and should prove a good selling line.

STANLEY NICHOLAS & CO. (Mr. S. H. Nicholas and Mr. A. Marceau), who have commenced business as essential oil importers at 6 Colonial Avenue, Minories, London, E.C.3, have been appointed agents in this country for Camilli Albert & Laloue, Grasse.

SANDALWOOD OIL.—The Trade Commissioner for Mysore in London (Grand Buildings, Trafalgar Square, W.C.2) has issued a report on the research carried out at Tokio Imperial University (department of dermatology) on the therapeutic value of Mysore sandalwood oil. A copy of this publication will be sent post free to anyone interested.

INVALID PORT WINE.—The Wine Growers' Association, 26 Great Portland Street, London, W., are marketing under the title of Lacey's Chemists' Invalid Port a wine the sales of which are to be confined to pharmacists. Of guaranteed quality, the wine is being supplied in bottles and half-bottles and an extra bottle is given free on certain opening orders.

"A DECADE OF VITAMIN D" is the title of a booklet published by Glaxo Laboratories, 56 Osnaburgh Street, London, N.W.1, in commemoration of the first standardised high concentrate of vitamin D, namely, Ostelin Liquid, made available in this country. In 1924 this product was prepared by extracting the vitamin D fraction from fish-liver oils; later its vitamin D content was derived from crude irradiated ergosterol; to-day and since 1932 this vitamin is in the form of chemically pure calciferol, and its standardisation can thus be effected to a degree of precision that was previously unattainable. The booklet is well illustrated and a copy of it is obtainable on request.

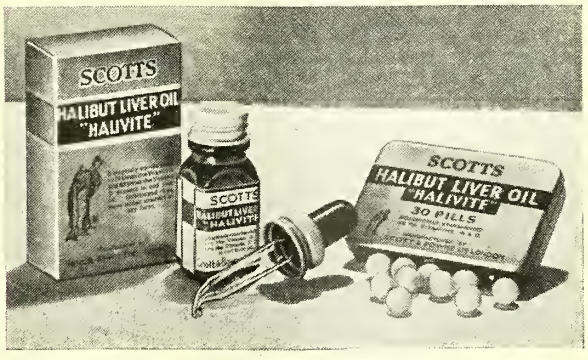
BONUS OFFER.—Beechams Pills, Ltd., St. Helens, have placed on the market a "family" size of their Lung Syrup, and in connection with this event the company is making a special offer, particulars of which are given in the advertisement pages. It should be noted that the closing date is October 8, and that bonus parcels may be obtained direct or through the usual wholesale channels. The latest showcard issued for Beechams Lung Syrup is shown in the illustration herewith.

ANGIERS EMULSION.—The revised prices of Angiers emulsion are announced by Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, on another page.

PROCTOIDS.—Petrolagar Laboratories, Ltd., Braydon Road, London, N.16, are calling the attention of the medical profession to a new preparation they have introduced as Proctoids hæmorrhoidal suppositories. The formula for these includes zinc oxide, boric acid, bismuth and ephedrine sulphate. Proctoids are torpedo-shaped and packed in boxes of one dozen.

A NEW SHOWROOM.—Spencer Brothers (C. J. Spencer, Ltd.), 39 Shoe Lane, London, E.C.4, have taken additional premises at Bangor House (opposite) in the same thoroughfare. In this establishment a new modern showroom has been opened. The buying office of the company has also been transferred to this address. This business was founded in 1922 by Mr. C. J. Spencer; it has developed until to-day it is one of the leading manufacturing houses of toilet sundries. In 1933 it became a private limited company with Mr. C. J. Spencer as managing director, and an important factor in the success achieved is Mr. Spencer's personal supervision. Mr. Spencer has had over thirty-three years' experience in the chemists' sundries business. In 1931 he visited Canada and the United States, and there gained valuable business knowledge. The specialities manufactured include the Mermaid face cloth, powder puffs of all descriptions, lavender and pot-pourri novelties, sponge bags and a large variety of tourist cases, also such lines as hot water bottle covers. Particular attention is paid to the manner of presentation, and no effort is spared to make their merchandise appeal to the buying public.

SCOTT'S HALIVITE PREPARATIONS.—Reference was made in the *C. & D.*, August 18, p. 216, to the halibut-liver oil being placed on the market by Scott & Bowne, Ltd. (10 Stonecutter Street, London, E.C.4), under the name



of Halivite, and to pills containing the oil. Both Halivite preparations, shown in the accompanying illustration, are the subject of display bonus terms, details of which are given elsewhere in this issue.

CUTEX HAND CREAM.—J. C. Gambles & Co., Ltd., 211 Blackfriars Road, London, S.E.1, are sending out an attractive display stand and sample tubes with certain orders for Cutex Hand Cream. This method of drawing the attention of the public to the cream has, we understand, proved most effective.

EPHREGEL NASAL JELLY.—In the advertisement of Evans Sons Lescher & Webb, Ltd., Liverpool, in the *C. & D.*, September 22, reference should have been made to the use of this preparation for quick relief of nasal catarrh, and not as printed.

A CAMERA LIGHTER.—Johnson & Sons, Manufacturing Chemists, Ltd., Hendon, London, N.W., are supplying a novelty which should appeal to photographic chemists and their customers, as in appearance it resembles a miniature folding camera, but is actually a petrol lighter.

It is a well-made article of ingenious design. To cause ignition the thumb is pressed on the milled edge on the top of the "apparatus," while what is the film winding key on a camera unscrews for petrol to be inserted and also carries a spare flint.

New Books

Coppock, J. B. M., and Coppock, J. B.—*Volumetric Analysis.* Third edition. 7¼ in. by 4¾ in. Pp. 111. 3s. 6d. Pitman & Sons, Ltd., Parker Street, London, W.C.2. [A text-book which reaches a third edition may be regarded as an established favourite. The questions provided (with answers) at intervals are a useful feature of this manual.]

Thorpe's Dictionary of Applied Chemistry: Supplement. Vol. I (A—M). 8¾ in. by 5¾ in. Pp. 680. 60s. Longmans, Green & Co., Ltd., 39 Paternoster Row, London, E.C.4. [The seventh and last volume of the present edition of "Thorpe" was published in 1927. The editors of this Supplement, Professor Jocelyn F. Thorpe and Dr. M. A. Whiteley, have planned it on the principle of dealing with those sections of the Dictionary in which the greatest advances have lately been made. The conciseness and authority of the book have been fully maintained. Among the contributors (all of whom are experts) are Professor Barger, Mr. Oliver Chick, Dr. H. A. D. Jowett, Mr. Ernest J. Parry, Mr. J. Davidson Pratt and Dr. F. L. Pyman.]

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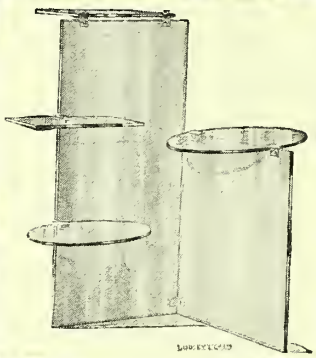

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Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

E/79. Buckley's syrup
E/26. Howard's dog mixture
E/79. Noxzema (London source)
S/24. Nutex depilatory
E/26. Roselene cleanser
E/26. Saftee eye cosmetic
D/26. Thymocarbolate
E/26. Urinox
S/17. Vinalpo veterinary preparation
S/26. Zambesi chest wool

THE
CHEMIST AND DRUGGIST
VOL. CXXI. September 29, 1934 NO. 2851

Trade with Canada

THE section devoted to the chemical industry in the report on the economic conditions in Canada (1933–1934) published by the Department of Overseas Trade, furnishes information on the steady growth of chemical production and the establishment of new plants in that country. The report also gives a good deal of statistical facts which indicate that, during 1933, the first full year of the operation of the Ottawa Agreements Act, 1932, there was some slight improvement in the total value of our shipments of chemical products to Canada. In the past the large bulk of chemicals, etc., landed in Canada have been drawn from the United States and, so far, the percentage shows but little reduction. We realise that in the cases of those chemicals of a comparatively low value, the advantage to America of being neighbours could only be countered by a very substantial increase in the margins of preference duties, but there is a very wide range of products, particularly pharmaceutical and medicinal preparations, which Canada might well consider doing her utmost to provide a preference that would ensure the business coming to this country; further, we are of opinion this could be done without measurably increasing the cost to the consumer. For the purpose of comparison we append a composite table based on figures abstracted from the report relating to Canada's chemical trade, inwards and outwards, with the United States and the United Kingdom, for the calendar years 1932 and 1933 :—

	1932 $	1933 $
Imports of chemicals and allied products, from all sources	27,862,000	24,068,000
Shipped from U.S.A. ...	17,275,161	13,692,757
Shipped from U.K.... ...	4,719,074	5,293,912
Exports of chemicals and allied products to all destinations	11,033,000	12,604,000
Shipped to U.S.A.	4,664,500	5,711,005
Shipped to U.K.	2,923,597	2,902,653

These figures indicate that, as regards imports, there is a slight turn in favour of our products, while the export returns are further evidence of the steady growth of the Canadian chemical industry.

Inter-Empire Trade

1933 was the first full year's working of the Ottawa Agreements Act, 1932, and, so far as our chemical trade is concerned, the results are somewhat disappointing. This legislation was framed so that it could be developed in order to promote inter-trade between all the units of the Commonwealth. We are aware that our chemical manufacturers have endeavoured to secure increases in the preference duties on chemical products but, so far, their efforts have met with little success. The machinery set up in Canada to deal with such applications has necessitated delay, and there appears to have been little real desire to promote the main object of the Ottawa Agreement, a freer *exchange* of Empire commodities. We have deliberately avoided buying practically every kind of staple foodstuffs, both vegetable and animal, in the cheapest markets in order to ensure what amounts in some important instances to a virtual monopoly of our market for Empire products. As regards the paucity of our chemical sales to Canada, we submit the fault is not with our manufacturers. The question must arise whether our agreement with Canada is fairly balanced. The following figures for 1933 are illuminating :—

Canada's total imports	$401,214,311
Shipped from U.S.A.	217,291,498
Shipped from U.K.	97,960,008
Canada's total exports	$531,749,179
Shipped to U.S.A.	170,534,208
Shipped to U.K.	210,689,331

Excluding duties on alcoholic beverages and tobacco, the average *ad valorem* rate of import duty on goods of U.S.A. and U.K. origin were as follows :—

	1931	1932	1933
U.S.A. goods	24·73	27·45	28·06
U.K. goods	15·65	18·62	14·51

The value of Canada's purchases from the U.S.A. are still more than double of those made in this country; at the same time we are, by the substantial margin of over forty million dollars, her best customer. We are well satisfied to be the leading purchaser of her products, but we shall hope to see our position as a supplier of her requirements show very considerable improvement during the next few years.

A One-Sided Arrangement

We cannot expect to increase our sales to Canada, whether they be of chemicals or general merchandise, unless the system of preferential duties is increased and widened in scope in our favour. We have, under the Ottawa Agreement, provided Canada with the limit of facilities to sell her products in this country by agreeing to free importation without exception (excluding Excise duties) and, at the same time, we have imposed heavy duties on competitive goods from foreign countries. Our farming and dairy industries have had to be subsidised in consequence of unrestricted Empire competition, and we have done considerable harm to our export trade to foreign countries because we have, in effect, stopped them from selling in this market, solely for the benefit of Canada and other units of the Commonwealth. While we are not wishful to comment upon the fact that Canada is disinclined to allow the products of our industry to compete with the chemicals she produces (although she is given that facility here), we believe she could, and, in our opinion, might well, revise her import tariff in other respects to allow us to supply substantially more than one-fifth of her requirements of imported chemicals, etc. It can definitely be stated that our industry is in a position to do so with little or no extra cost to the Canadian consumer.

THE PROGRESS OF PHARMACY AND ALLIED SCIENCES

PHARMACY

Danish Formulas.—The following preparations have been added to the Formulary of the Association of Danish Pharmacists:—

RECTOL CUM BENZOCAINO DAK.—OINTMENT OF CHLORBUTOL WITH BENZOCAINE DAK.—

Chlorbutol	30 gm.
Calomel	30 gm.
Benzocaine	100 gm.
Liquid paraffin	173 gm.
White soft paraffin	200 gm.
Wool fat	440 gm.
Liquid extract of hydrastis	12 gm.
Extract of hamamelis	15 gm.

RECTOSAN CUM BENZOCAINO DAK.—HÆMORRHOIDAL SUPPOSITORIES WITH BENZOCAINE DAK.—

Bismuth oxyiodogallate	50 gm.
Zinc oxide	50 gm.
Benzocaine	31 gm.
Balsam of Peru	10 gm.
Oil of theobroma	169 gm.

To make 100 suppositories.

TABLETTÆ PRINAFOS DAK.—TABLETS OF SODIUM ACID PHOSPHATE DAK.—

Exsiccated sodium acid phosphate	350 gm.
Arrowroot, in powder	180 gm.
Distilled water	20 gm.

Mix, set aside for several hours, then add the following mixture:—

Arrowroot, in powder	25 gm.
Talc	25 gm.

Make 1,000 tablets, each containing 0.35 gm. of sodium acid phosphate.

Beasan.—This is the name given to a modification of compound syrup of lactocreosote, for which Sven Hallén ("Svensk Farmaceutisk Tidskrift," 1934, 368) recommends the following method of preparation:—

Calcium lactophosphate	50 gm.
Benzoic acid	6 gm.
Boiling distilled water	1000 gm.

Dissolve and add:—

Liquid extract of senega	80 gm.
Tincture of orange	100 gm.
Lactic acid	70 gm.
Creosote	40 gm.

The lactic acid and creosote are previously mixed together and the mixture added to the other ingredients. Mix thoroughly and set aside to deposit. Decant the clear liquid, transfer the precipitate to a double filter and pour over it sufficient boiling water to effect solution. This solution is used to prepare the following syrup:—

Distilled water	2368 gm
Sugar	5736 gm.

Then add:—

Glycerin	550 gm.

Complete to 10,000 gm. with distilled water and filter.

Emulsio Acriflavinæ.—Middlesex Hospital Pharmacopœia:—

Acriflavine	$\frac{7}{16}$ gr.
Distilled water	3 min.
Wool fat	10 gr.
Liquid paraffin to	1 fl. oz.

Unguentum Ephedrinæ Compositum.—King's College Hospital Pharmacopœia:—

Menthol	4 gr.
Eucalyptol	4 min.
Adrenalin solution (1 : 1000)	15 min.
Ephedrine hydrochloride	4 gr.
Soft paraffin, white, to	1 oz.

Syrupus Lactocreosoti Compositus.—Sven Hallén describes the following method ("Svensk Farmaceutisk Tidskrift," 1934, 366) of preparing compound syrup of lactocreosote:—

Boiling distilled water	1000 gm.
Calcium lactophosphate	40 gm

Dissolve and add to the solution

Tincture of orange	100 gm.
Tincture of aconite	100 gm.
Lactic acid	70 gm.
Creosote	40 gm.

The mixture is vigorously shaken, together with a small amount of animal charcoal, in a flask and then filtered through a double filter. To the filtrate add a solution of

Sugar	6075 gm.
Distilled water	2570 gm.

Filter, and in the filtered syrup dissolve

Diacetylmorphine hydrochloride	0·3 gm.
Codeine phosphate	4.0 gm.

In the above formula the lactic acid and creosote should first be mixed together. The filtered product should weigh 10,000 gm.

AGRICULTURAL CHEMISTRY

Sodium Chlorate as a Weed-Killer.—A useful digest of knowledge on the application of sodium chlorate to kill weeds is given by Dr. M. A. H. Tincker in the "Journal of the Royal Horticultural Society" for February (59, 107). Experiments at Wisley showed that sodium chlorate is quite effective against various weeds. Its destructive action ends about seven months after the time of application, so that there are no harmful after-effects such as may occur with arsenical weed-killers. A 10-per-cent. solution is used for large grasses and docks, and a solution half this strength suffices for herbaceous weeds and small grasses. The liquid is applied at the rate of 1 gallon per 10 square yards, so cost of treatment is low. Dry sodium chlorate must, of course, be handled and stored with due care.

ANALYTICAL CHEMISTRY

Micro-Determination of Cysteine.—The catalytic effect of cysteine in buffered cobaltous chloride solutions on the deposition of hydrogen at the dropping mercury cathode is used to make quantitative micro-determinations of cysteine in the products of hydrolysis of proteins (wool, human hair, albumen, serum). A feature of the work is that the polarographic method, eliminating the personal factor, enables reliable and reproducible results to be obtained using as little as 0.05 mgm. of hair. The same results are obtained as with much larger quantities of material. Using suitable buffer solutions of cobaltamine the cysteine formed during protein hydrolysis does not show any influence upon the polarographic curves but an intermediate product definitely indicates a change. (R. Brdicka, "Collection of Czech Chemical Communications," 1933, v, 238-252.)

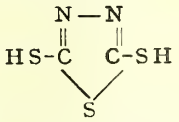
THE PROGRESS OF PHARMACY AND ALLIED SCIENCES

Determination of Elemental Sulphur.—H. R. Fleck and A. M. Ward have devised a method ("Quarterly Journal of Pharmacy and Pharmacology," 7, 2, 179) for the determination of elemental sulphur, based on the reaction—

$$Na_2SO_3 + S \longrightarrow Na_2S_2O_3.$$

The sodium thiosulphate formed is titrated by $N/10$ iodine, after rendering the excess of sodium sulphite inactive by means of formalin and acetic acid. The method is applied to the determination of sulphur in flowers of sulphur, sulphur ointment, confection of sulphur, sulphur tablets and compound powder of liquorice. The complete determination occupies from fifteen minutes to forty minutes, depending upon the state of division of the sulphur and the nature of the material to be analysed.

New Colour Reaction for Bismuth.—In qualitative analysis bismuth can be precipitated in an acid medium (e.g., in group 2) by adding a solution of dimercapto-thio-diazole,



A bright red precipitate containing 31.83 per cent. of the metal is formed. The reagent is made by dissolving 0.7 gm. of dimercapto-thio-diazole in 35 c.c. of deci-normal potassium hydroxide and can be added to a hydrochloric acid solution containing bismuth. This test is more delicate than the oxychloride reaction since it will show as little as 0.0012 mgm. Bi and can be used with solutions down to a dilution of 1 part in 28,000. It is further found that bismuth salts give characteristic orange or yellow colorations with a number of organic compounds containing the group $-NH.C.SH$. (J. V. Dubsky and A. Okac, "Chem. Obzor," 1934, ix, pp. 3-4.)

Modification of Benedict's Test.—By the use of the following method J. Fine ("British Medical Journal," 3838, 167) has been able to dispense with "the standard quantitative determinations" for sugar in urine. Five c.c. of Benedict's qualitative reagent and 0.5 c.c. of urine are mixed in a test-tube, which is placed in a boiling-water bath for exactly five minutes. The mixture is filtered hot through a fine paper (Whatman No. 44) into a tube of the same bore as that of the standard colour tubes. The colour of the unknown is then compared with that of the standards, the tubes being observed against a white background. If the filtrate is colourless 2 per cent. or more of glucose is present: the test is therefore repeated, employing urine which has been diluted twofold or fourfold, and allowing for the dilution in the calculation. The preparation of the standard colour tubes and the concentration of sugar to which each corresponds are given in the following table:—

No. of standard tube	Amount of Benedict's solution (c.c.)	Amount of distilled water	Percentage of glucose to which tube corresponds
1	5	0·5	0·0
2	4	1·5	0·4
3	3	2·5	0·8
4	2	3·5	1·2
5	1	4·5	1·6
6	0	5·5	2·0 or over

The above data have been established by direct experiment. Thus it was found that the colour of the filtrate, after heating 5 c.c. of reagent and 0.5 c.c. of 0.4 per cent. glucose in a boiling-water bath for five minutes, exactly matched the colour of a mixture of 4 c.c. of reagent and 1.5 c.c. of water. The filtrate may have a greenish tinge which, when marked, renders matching with the blue standards rather difficult. Nevertheless, the accuracy that can be attained by this modification is sufficient.

BIOLOGICAL CHEMISTRY

Activity of Synthetic Ascorbic Acid.—W. N. Haworth, E. L. Hirst and S. S. Zilva ("Journal of the Chemical Society," August, 1155) report that a specimen of synthetic *l*-ascorbic acid possessed (in prophylactic doses of 0.25 mgm. and 0.5 mgm. daily) the same anti-scorbutic activity towards guinea-pigs as the natural substance. The artificial product was analytically pure and identical in physical and chemical properties with natural material from either adrenal cortex or paprika.

Liver Oils Rich in Vitamin A.—J. A. Lovern ("Nature," 3385, 423) calls attention to sturgeon (*Acipenser* sp.) liver oil as comparable with halibut-liver oil in vitamin A potency. Samples of sturgeon-liver oil vary widely, the best sample showing 4,000 blue units in the antimony trichloride test for 0.2 c.c. of a 20-per-cent. solution. The liver of the tunny fish (*Thunnus thynus*) has been recently examined, and three samples from fish caught off Scarborough gave blue values of 1,927, 1,993, and 2,724 respectively. Tunny liver contains from 20 to 25 per cent. of oil.

INDUSTRIAL CHEMISTRY

Nascent Soap.—A. Rayner ("Chemistry and Industry," 53, 27, 589) describes the remarkable properties of nascent soap, i.e., soap formed *in situ* by combination of fatty acids with articles to be cleansed. The amounts of fatty acid to give the same cleansing effect was found to be as follows:—

(i) As free oleic acid	0·25 gm.
(ii) As soap distributed in fabric	1·76 gm.
(iii) As soap in aqueous solution	5·9 gm.

Advantage of the increased detergency of free oleic acid (or nascent soap) in washing fabrics can be made practical by using in the form of an emulsion. A patented formula is:—Oleic acid 45; sulphonated castor oil 5; glue 1.5; water 48.5. It is suggested that lowering of the interfacial tension is the reason for the increased detergent activity of nascent soap. The method of using consists of diluting the emulsion to about 0.2 per cent. of fatty acids. The articles to be washed are dipped therein and the surplus liquor squeezed out before putting them in a dilute solution of sodium bicarbonate (or preferably of sodium sesquicarbonate) and stirring gently. The formation of soap, with the liberation of dirt, is immediately apparent. Six times the amount of fatty acids applied in the form of soap flakes is needed to obtain equivalent results, but oleic acid in benzine solution is four times as active as in emulsion form.

DENTISTRY

Dentifrices in the Prevention of Dental Disorders.—Bernard B. Badanes ("Dental Cosmos," 76, 7, 761), in the course of an article on dentifrices as an aid in the prevention of dental disorders and in the preservation of children's teeth, gives the following two formulas. The first is described as a "simple and practical formula for a toothpaste":—

Magnesium sulphate, c.p.	0·5
Magnesium chloride, c.p.	0·5
Dicalcium phosphate (Victor)	53·0
Glycerin	17·0
Water	27·0
Gum tragacanth powder	1·0
Oil of peppermint	1·0

Another suggestion for improvement, the author states, calls for a radical reform in the type of form for a dentifrice, which offers many advantages. The form suggested is in the shape of a compressed, corrugated, oblong dental wafer, the size of the set of bristles in an

THE PROGRESS OF PHARMACY AND ALLIED SCIENCES

ordinary toothbrush, about one-twelfth of an inch thick and weighing approximately one gram. The dental wafer may be made so that by placing it on a wetted toothbrush and letting a few drops of water fall on it, it will disintegrate and form a paste, in which state it may be applied to the teeth. The proper way to use it, however, is to first chew it up well like chewing gum and work it around the teeth with the tongue; then a clean wetted toothbrush may be used over it in the ordinary way. This simple process tends to make the act of cleaning the teeth much more easy and less tedious than by placing the dentifrice on the toothbrush, with which many children experience some difficulty. The dental wafer may be made according to the following formula:—

Magnesium sulphate, c.p.	1·0
Dicalcium phosphate (Victor)	40·0
Sodium sulphate neutral, dry	8·0
Sucrose powder	5·0
Tartaric acid	20·0
Sodium bicarbonate	24·0
Gelatine powder	1·0
Oil of peppermint	1·0

ESSENTIAL OILS

Muhugu Oil.—A sample of oils known under this name in Kenya has been examined in the laboratories of the Imperial Institute ("Bulletin" xxxii, 2, 34). The plant from which it was distilled is *Brachylæna Hutchinsii*. The oil was distilled in three fractions, which had the following characters:—

	(1)	(2)	(3)
S.g.	0·9719	0·9905	0·9961
Rotation	+3·19°	−8°	−9·54°
Refractive index	1·5108	1·5138	1·5170
Acid value	0·7	1·1	1·4
Ester value...	10·8	17·2	18·3
Ester value (after acetylation)	89·4	143·5	155·1

This oil is quite definitely of the cedarwood type, but its market value is probably low.

Oil of Carrots.—L. Palfray and A. M. Lepesqueur ("Comptes Rendus," 1934, 198, 1365, 67) have examined this oil prepared by steam distillation and find it to be free from methoxy and ethoxy groups and nitrogens. Only traces of phenols were found. No fluorescence appears in ultra-violet light. It fixes bromine in chloroform solution and gives a yellow coloration with antimony tricholoride. It has the following characters:—S.g., 0.9413 at 17°/4° C.; refractive index, 1.4931; optical rotation, +3.90°; acid value, 3.47; saponification value, 19.73; saponification value (after acetylation), 55.5. The free acids consisted of formic and acetic acids. Other constituents isolated were *l*-pinene and an unsaturated compound $C_{15}H_{26}O$, apparently identical with Asahina and Tsukamuto's cratol ("Journal of the Pharmaceutical Society of Japan," 1925, 525, 1), which fixes one molecule of hydrogen in the presence of oxidised platinum and appears to contain one hydroxyl group.

East African Cedarwood Oils.—The essential oil of the wood of *Widdringtonia Whytei*, the so-called "Mlanje cedar" of Nyasaland, has been investigated by the Imperial Institute ("Bulletin," xxxii, 2, 1934). The oil had the following characters:—S.g., 0.9645; optical rotation, −31.13°; refractive index, 1.5098; acid value, 7.2; ester value, 15.2; ester value (after acetylation), 69. The oil was submitted to a firm of soap manufacturers, whose report was as follows:—"Having prepared samples of soap containing the above oil, and compared it with East Indian sandalwood oil and American cedarwood oil, I am of opinion that it will not be possible to market it at a price above that of American cedar, other than perhaps a small premium, because of its somewhat, though only slightly, more sandal-like odour. This, however, is discounted by its weakness, and consequently I cannot suggest that the premium can be a large one."

Grapefruit Oil.—E. K. Nelson and H. H. Mottern ("Industrial and Engineering Chemistry," 26, 6, 634) have investigated Florida grapefruit oil, which is new to commerce, but is finding favour in Great Britain for flavouring aerated beverages. The grapefruit oil was obtained from the Florida Common or Duncan type of grapefruit by the Pipkin process, in which the peel passes between knurled rollers. The oil is separated from the emulsion by a high-speed centrifuge. Analysis gave the following (average) constants:—S.g., 0.8563; optical rotation, $\alpha\frac{20}{D}$, 93.28°; refractive index, 1.4758; aldehyde as octyl and decyl aldehydes, 1.67 per cent. The composition corresponds to approximately 90 per cent. of limonene, 2 to 3 per cent. of oxygenated volatile constituents and sesquiterpenes, and 7 to 8 per cent. of waxy materials. Octyl and decyl aldehydes are present, as also citral and methyl anthranilate in small quantities. Geraniol and octyl alcohols are present both as free alcohols and as acetates. Cadinene was also identified. A terpeneless oil was made in which the "turpentine taste" was eliminated.

Essential Oils of Calythrix Virgata.—A. R. Penfold and F. R. Morrison, in a paper read recently before the Royal Society of New South Wales, dealt with the above-mentioned oil. *Calythrix virgata* is stated to be a shrub from 3 to 5 ft. high with very small dark green leaves and having a profusion of white or pink flowers of great beauty. It occurs in abundance in the Megalong and Burragorang Valleys of New South Wales. Altogether some 600 lb. of leaves and terminal branchlets were steam distilled, and the resulting oils varied in colour from pale yellow to deep golden brown, with an average yield of 0.5 per cent. The oils had very pleasing fragrant odours, characteristic of the esters of citronellol and geraniol. In one case the odour of pinene somewhat adversely affected the aroma, which was at its best when the plant was distilled in full flower. The chief constituents so far identified were d-α-pinene, citronellol and geraniol, both free and combined as acetic, formic, citronellic and dehydrocitronellic acid esters. Linalool appeared to be present in small quantity, but this was not confirmed. The determination of citronellic and dehydrocitronellic acids is interesting. Oily acids with an odour of capric acid in relatively small amount occur fairly frequently in Australian essential oils, and these acids are usually determined by the amount of silver left on ignition of the silver salts. The silver salts of both capric and citronellic acids yield about the same amount of silver on ignition, and the authors conclude that the occurrence of capric acid in a number of their previous papers, especially where citronellal or citronellol has been found in quantity, has been reported in error for citronellic and dehydrocitronellic acids. The oils obtained from the total of 600 lb. of material had the characters set out in the following table:—

	June 25, 1928	Sept. 9, 1929	Oct. 21, 1931	June 28, 1932	Sept. 14 1933
Locality	Megalong Valley, N.S.W.	Megalong Valley, N.S.W.	Megalong Valley, N.S.W.	Burragong Valley, N.S.W.	Megalong Valley, N.S.W.
Weight of leaves lbs.	—	190	237	61·5	112
Oil yield per cent.	—	·43	·47	·3	·36
Sp. gr.	0·8823	0·8833	0·8913	0·8923	0·8855
Optional rotation ...	+12·75°	+14·3°	+11·8°	+12·0°	+13·2°
Refractive index ...	1·4637	1·4671	1·4684	1·4751	1·4677
Sol. in 70% alcohol by weight ...	1·3 vols.	3·3 vols.	1·8 vols.	10·0 insol.	1·3 vols.
Ester No. 1½ hr. Hot Sap.	53·8	53·9	90·3	31·7	52·5
Ester No. after acetylation ...	192·3	182·3	180·8	164·2	181·2
Remarks	(*a*)	(*b*)	(*c*)	(*d*)	

(*a*) Sample given by Dr. Lyons; distilled by him January, 1927.
(*b*) V. fragrant odour of geraniol and citronellol.
(*c*) Plant in full flower; most fragrant sample.
(*d*) Poor odour; time of year responsible.

For the purposes of this article only the results from the admixture of two samples of oil obtained from leaves

THE PROGRESS OF PHARMACY AND ALLIED SCIENCES

collected at Megalong Valley need be described; 250 c.c. of crude oil was washed with 8 per cent. sodium hydroxide solution to remove free acids and phenolic bodies. The oil was next saponified with alcoholic potassium hydroxide solution at room temperature; 228 c.c. were returned and subjected to distillation at 10 mm. with the following results:—

Fraction	Boiling Point	Vol. c.c.	Sp. gr.	Optical Rotation	Refractive Index
1	55-60°	45	0·8627	+38·5°	1·4672
2	61-96°	4	0·8707	+19·0°	1·4663
3	97-109°	70	0·8759	+ 3·0°	1·4686
4	109-111°	62	0·8776	+ 3·5°	1·4707
5	105-115° (5 mm.)	8	0·9049	+ 4·0°	1·4795
6	116-135° (5 mm.)	16	0·9392	+ 2·0°	1·4932

Determination of d-α-pinene.—Fraction No. 1 on repeated redistillation over metallic sodium yielded the following distillate:—Boiling point, 155°-156° (764 mm.); s.g., 0.8629; optical rotation, +39.9°; refractive index, 1.4658. Oxidation with potassium permanganate resulted in an excellent yield of pinonic acid of melting point 70° and optical rotation +97.8°. The semicarbazone of the pinonic acid melted at 207°. The free and combined alcohols were found to consist of citronellol (80 per cent.) by formylation and geraniol. In the examination of the residual oil left after the removal of the citronellol and geraniol by treating with phthalic anhydride, there was always a small fraction with a characteristic linalool odour. Two of these fractions from different lots of oil had the following constants:—

	B.Pt.	Sp. gr.	Optical Rotation	Refractive Index
No. 1	80-90° (10 mm.)	0·8829	+1·6°	1·4658
No. 2	80-90° (10 mm).	0·8817	+6·8°	1·4665

Attempts to prepare derivatives with both phenylisocyanate and naphthylisocyanate failed. A liquid acid with an odour of capric acid and s.g. 0.9401, refractive index 1.4629, optical rotation +3.4° was found and appeared to be a mixture of citronellic and dehydrocitronellic acid.

MATERIA MEDICA

Constitution of New Antimalarials.—I. L. Knunjantz, K. S. Toptschiev, and G. V. Tschelintzev ("Bulletin of the U.S.S.R.," 8, 1, 153) show that "Plasmoquin" is a compound of 1: 1′-methylene-2: 2′ dinaphthyl-3: 3′-dicarboxylic acid and 8-δ-diethylamino-α-methyl-butylamino-6-methoxyquinoline. Atebrin (Loc cit, 165) is 6-chloro-9-δ-diethylamino-α-methylbutylamino-2-methoxyacridine.

Root-Bark of Phyllanthus Engleri.—Maria G. Breyer-Brandwijk has carried out an investigation ("Quarterly Journal of Pharmacy and Pharmacology," 7, 2, 167) regarding the phytochemistry of the root-bark of *Phyllanthus engleri*, Pax., a tree of the N.O. Euphorbiaceæ used medicinally by the Ilas, a native tribe inhabiting the Namwala sub-district of Northern Rhodesia. A cold infusion of the root-bark, made into a gruel with meal, is used as a cough remedy and the leaf is chewed as a tonic for indigestion and constipation. The smoke from combusting the root-bark on the hot ashes of a pipe is inhaled slowly and in small amount for medicinal purposes, but the exact reason for this use is not known. A fuller inhalation of the smoke is used for suicidal purposes, death being said to occur instantaneously. It is generally held by the Ilas that the root-bark and extracts of it may be taken by the mouth with impunity and that the fruit and stem-bark are also non-toxic. The author has isolated from the root-bark (1) *two* different *resins* which are non-toxic, and a *third resin* which may be identical with one of the others, being soluble in similar solvents, but having a different colour; (2) a *toxic glycoside* which is amorphous and not quite pure. The sugar forms a glucosazone. *Rubber, starch* and *inorganic matter* are present in the root-bark. There are indications of the presence of a small quantity of gum, organic acids and carbohydrates. Proteins could not be isolated or traced. The root-wood is also toxic.

MEDICINE

Pyrethrum Sensitivity.—In a letter to "The Journal of the American Medical Association" (103, 3, 205) R. H. Kampmeier gives details of two cases in which injections of pollen extract for rhinitis or hay fever, previously successful, failed to relieve. The cause of the failure was in each case found to be sensitivity to pyrethrum insecticides. He concludes that pyrethrum in insecticides may cause hay fever and asthma, and that a patient may have coexistent sensitivity to this substance and to pollens of grasses and weeds.

Sodium Chloride in Addison's Disease.—C. M. Hinds Howell reports ("Lancet," 5778, 1116) a striking improvement in a case of Addison's disease following the administration of 10 gm. of sodium chloride daily. On the daily quantity being reduced to 5 gm. the patient soon relapsed. Details of blood pressure and other data are given. It is suggested that the adrenal controls the blood sodium, and that in Addison's disease there is a sodium leak from the body. Treatment with sodium chloride is obviously not in any way curative, but, by supplying an excess, to some extent makes good the wastage.

Cyclopropane Anæsthesia in Obstetrics.—W. Bourne reports ("Lancet," 5784, 20) on the use of cyclopropane anæsthesia in thirty-four obstetrical cases, with a table of data. He expresses the view that cyclopropane seems to be very suitable for the relief of pain in obstetrics, for the following reasons: (1) An abundance of oxygen is given with the cyclopropane. (2) Circulation and respiration are not depressed. (3) Anæsthesia is produced without appreciable metabolic disturbance. (4) Liver function is not impaired. (5) Anæsthesia is quickly and agreeably induced, satisfactorily maintained at any desired depth with ready flexibility and with minimal danger to the mother and child, and recovered from easily and uneventfully.

Treatment of Chorea.—In "The British Medical Journal" (3840, 246) N. Mutch discusses the treatment of chorea. After a review of the literature he reports favourably on calcium aspirin (Coplans), a stabilised salt containing calcium chloride to an extent approximating to the formula

$$[C_6H_4\ (OCOCH_3)\ CO_2]_2\ Ca4H_2O + 1/3\ CaCl_2.$$

The conclusion arrived at is that calcium aspirin (Coplans) affords a method of treating chorea without occasioning exhaustion, discomfort, or risk to the patient. It is less toxic than acetylsalicylic acid itself, and is free from the irritant action of the parent substance on the stomach and bladder. It is freely soluble, almost tasteless, and is rapidly absorbed. It has a triple action: (1) anti-rheumatic, (2) correction of calcium deficiency, (3) sedative to the brain.

Injection Treatment of Reducible Hernia.—At a meeting of the surgery section of the Royal Society of Medicine ("Proceedings of the Royal Society of Medicine," 27, 9, 1289) St. G. B. D. Gray said that he used the method of I. Mayer of Detroit, U.S.A., who claimed cures in 98 per cent. of cases of reducible hernia. The solution is made up as follows:—Zinc sulphate, 1 dr.; phenol crystals, 6 dr.; glycerin, 4 fl. dr.; cinnamon water, 1 fl. oz.; fluid ext. pinus Canadensis (dark), 5 fl. dr.;

THE PROGRESS OF PHARMACY AND ALLIED SCIENCES

sterilised chemically pure redistilled water, 2 fl. oz. It takes about a fortnight to prepare, and is put up in clear glass, rubber-capped, 1-oz. bottles. It is important to specify clear glass because the solution is muddy when cold, but on heating it becomes transparent, and if tinted containers are used it may be difficult or impossible to see when the fluid is clear. The technique of injection is described.

Raw and Boiled Milk Compared.—Jessie W. Ogilvie and Olive D. Peden have carried out an investigation ("Lancet," 5785, 76) into the effect of boiling on the gastric digestion of milk. The following were used as indices of the course of digestion:—(1) The amount of free hydrochloric acid and total chlorine, and the degree of total acidity. This was done since the reaction of the gastric juice is of considerable importance in the digestion of proteins and the utilisation of minerals. (2) Peptic activity, to determine whether any change in the physico-chemical composition of the milk alters the secretory activity of the zymogen glands. (3) Soluble non-protein nitrogen as an index of the extent to which proteins are disintegrated. (4) Soluble calcium as an indication of the capacity of the gastric secretion to convert minerals into a soluble and therefore a readily assimilable form. The authors' results indicate that there is no significant difference in gastric digestibility between raw and boiled milk.

Development of Diphtheria Immunity.—Surgeon-Captains Dudley and May and Surgeon-Commander O'Flynn have reported to the Medical Research Council ("Special Report Series," No. 195) on "Active Immunisation against Diphtheria," as a result of an epidemiological study at Greenwich Hospital School. Permission was obtained in 1921 to apply the Schick test to inmates of the School, who number about 1,000. Inoculation against diphtheria was introduced in 1928. Prior to 1928 the average number of cases of diphtheria numbered forty-five, and inmates were subjected to infection in a degree intensified by overcrowded conditions. In these circumstances latent immunisation proceeds rapidly, and it is estimated that three years' residence is as effective as the usual prophylactic procedure, the danger being that one case of diphtheria occurs for every three or four latent immunisations. It was found that three doses of a diphtheria toxoid prophylactic produced in three months as high a degree of immunity as three years' residence. The artificial immunisation has also the advantage of the almost complete disappearance of clinically recognisable diphtheria.

OPTICS

Anterior Lenticonus.—B. Rones ("Journal of the American Medical Association," August 4, 1934), after pointing out that the term anterior lenticonus is used for conical transparent projections from the anterior surface of the lens into the anterior chamber, states that this condition is probably the result of a congenital or an acquired disturbance of the pressure relationships in the lens system. The congenital form bears no relationship to delayed separation of the lens vesicle from the surface ectoderm. The anomaly presented appears to be the forerunner of the congenital type of anterior lenticonus, though the possibility of the disappearance of the fluid and an ingrowth of normal lens fibres must be borne in mind. Since this anomaly is present prior to the development of the hyaline capsule and the zonular fibres, it is apparent that the underlying cause of congenital lenticonus is not a deficiency in these structures.

Normal and Abnormal Colour Vision.—H. E. Roaf, in a paper presented at the recent meeting of the British Association for the Advancement of Science, said that colour vision is probably dependent upon three types of receptor organs. In some persons the activity of one of these types is reduced or absent, giving rise to varying degrees of defective colour vision. Discrimination curves suggest that the change in ratio of stimulation occurs rapidly at wave-lengths about 5800 Å. and 4900 Å. Hypochromats do not possess the maximum near 5800 Å.; hence their dichromatic vision depends upon two types of receptors with marked change in ratio of stimulation by wave-lengths about 4900 Å. The normal person differs, therefore, from the hypochromat in that the former is better able to distinguish wave-lengths of radiation longer than 5800 Å. from shorter ones. The defect does not appear to be a mere absence of one type of receptor leaving a portion of the spectrum unrepresented, but it seems as if the red discrimination of the euchromat were superimposed on a background of something else. In the absence of discrimination of "red" the background might be classed as yellow, but when discrimination of "red" is present the sensation of yellow is aroused by a region of the spectrum which separates that giving a red sensation from that which gives another colour, namely, green. The deficiency is always characterised by a spreading out of the portion of the spectrum which gives rise to a sensation of yellow until, in severe cases, the whole of the spectrum from 4900 Å. to the extreme "red" end is distinguished only by characters such as brightness or decrease in blueness.

PHARMACOLOGY

A Survey of Thallium Poisoning Cases.—Under the title "Human Thallotoxicosis," J. C. Munch contributes to "The Journal of the American Medical Association" (102, 23, 1929) a tabulated survey of the literature of thallium poisoning. His conclusions are:—Following industrial exposure twelve persons have been poisoned, but none died. Following clinical use, 692 persons have been affected and thirty-one deaths resulted. Toxicological literature records fifty-three human beings poisoned by thallium compounds, with ten deaths. Following the rodenticidal and entomologic use, twenty-one human beings have been poisoned and five died. Reports have been found on 778 human beings poisoned with thallium compounds; forty-six (6 per cent.) died of thallotoxicosis.

Morphine and Dihydromorphinone Compared.—N. A. David makes a comparison ("Journal of the American Medical Association," 103, 7, 474) between the effects of morphine and of dihydromorphinone on basal metabolism and other functions. The drugs were administered subcutaneously. The author concludes that morphine and dihydromorphinone, administered subcutaneously in therapeutic doses, tend to lower the basal metabolic rate in proportion, usually, to the dose given. Dihydromorphinone acts more rapidly but over a shorter period of time than morphine. While dihydromorphinone is said to be about five times as potent as morphine, the results with respect to the effects on the basal metabolism indicate that it is at least ten times as active. He believes the recommended subcutaneous dose of 2 mgm. to be sufficient in ordinary cases and about equal to $\frac{1}{4}$ gr. of morphine. Tactile discrimination is decreased to a slightly greater extent by a dose of dihydromorphinone (0.01 mgm. per kilo of body-weight) about one-tenth that of morphine (0.14 mgm. per kilo of body-weight). Slightly less respiratory depression seems to result from dihydromorphinone than from morphine. Both drugs tend to cause similar slight decreases from normal in the heart rate, pulse pressure and temperature. Undesirable side-effects occur with slightly less frequency following the administration of dihydromorphinone than after morphine. Itching, however, seems to be a prominent complaint after dihydromorphinone.

PHOTOGRAPHY

Selenium Toning for Chloro-bromide papers.—M. Delcroix ("British Journal of Photography," July 27, 1934) has suggested a new toning bath for chloro-bromide papers, using powdered selenium, which would appear to

THE PROGRESS OF PHARMACY AND ALLIED SCIENCES

offer a number of advantages, in particular that of rapid toning. The two solutions are made up as follows:—

A

Sodium sulphite, anhydrous ...	640 gr.
Water	10 oz.

Add to this:

Selenium in powder	21 gr.

and boil to dissolve.

B

Sal ammoniac	800 gr.
Water (cold)	13½ oz.

When the solution "A" has cooled, mix the two. The toning bath keeps well in solution.

Prints may be immersed either after washing or after fixing (without washing) and the toning process proceeds rapidly. It appears that the sal ammoniac accelerates the deposit of the selenium on the image.

Fine Grain Developers.—M. A. Seyewetz ("La Photographie," July 20, 1934) refers to the use of ortho-aminophenol for the production of fine-grain images and proposes the following formulas:—

I

Ortho-aminophenol	90 gr.
Metol	45 gr.
Sodium sulphite, anhydrous ...	450 gr.
Sodium phosphate, tribasic ...	32 gr.
Pot. brom. 10 per cent. solution	90 minims
Water ... ... to	20 oz.

Time of development: Twenty minutes, at 65° F.

Pyro may be used as a substitute for metol, the weight remaining the same, though development time increases to twenty-five minutes at the same temperature.

II

Ortho-aminophenol	45 gr.
Metol	90 gr.
Hydroquinone	14 gr.
Sodium sulphite, anhydrous ...	450 gr.
Sodium sulphite, tribasic ...	45 gr.
Pot. brom. 10 per cent. solution	90 minims
Water ... ... to	20 oz.

Time of development: Twenty-five minutes, at 65° F.

It is important that the times given for development should not be exceeded, otherwise larger-grained images are produced.

III

Hydroquinone	63 gr.
Acetone	36 gr.
Sodium sulphite, anhydrous ...	900 gr.
Pot. brom. 10 per cent. solution	90 minims
Water ... ... to	20 oz.

Time of development: Thirty minutes, at 63°–65° F.

Pyro may be used in place of the hydroquinone, though the time of development is then reduced to eleven minutes.

VETERINARY MEDICINE

Gape-worm in Chickens.—Results of experiments on the transmission of gape-worm by earthworms are recorded by P. A. Clapham ("Proceedings of the Royal Society," B, 115). The earthworm, *Eisenia fœtida,* of soil containing decaying vegetable matter is the main source of danger. All chickens fed with *Eisenia* infected with the larvæ of gape-worm (*Syngamus trachea*) died usually from complete blocking of the trachea. *Eisenia* is found in large numbers on land over which stock is raised intensively. Hence young chickens raised on soil of poultry-runs are particularly liable to gape-worm infection. Tests with the common earthworm, *Lumbricus terrestris,* showed that *Syngamus* occurred in the trachea of about 50 per cent. of the chickens fed with infected *Lumbricus,* but none of the gape-worm infestations were fatal. Using *Eisenia* as intermediate host it was possible to transmit *Syngamus* to chickens up to three months old when these are under-nourished, which is contrary to the general idea that gape-worm can be established only in very young chicks.

Milk Fever.—W. Hepburn ("Veterinary Record," September 1, 1934), referring to the calcium treatment of milk fever, states that he had had disappointments due to the want of knowledge as to the amount of calcium required, and the correct technique to be employed. The great trouble was to maintain complete solution of the calcium gluconate, for if it were administered subcutaneously with the slightest trace of precipitation, an abscess or sloughing at the site of injection was liable to occur. This difficulty was overcome by always administering the solution hot, and not stronger than 5 per cent., and it was found that 2 oz. of the salt was quite sufficient to effect rapid and complete cure. The addition of boric acid keeps the calcium in perfect solution for a long period and Dr. Greig had suggested the following formula as a hypodermic injection in milk fever:—

Calcium gluconate	2 oz.
Boric acid	3 dr.
Water	11 oz.

The author prepares this solution by dissolving the calcium gluconate and boric acid in about 13 oz. of boiling water, which boils down to 11 to 12 oz. The small quantity now required to be administered is a great advantage on the 40-oz. solution used previously.

White Scour and Allied Diseases in Calves formed the subject of a paper presented at the recent Veterinary Congress by R. McD. Smith. In regard to the treatment of these complaints, the author stated that nothing so far has proved to be a specific. Certain drugs prove to be of value on certain farms whilst, on the other hand, on others the same drugs or same line of treatment for apparently the same condition prove quite useless. Any remedy, to be of any value, must be given in the early stage of the disease, for once the symptoms are firmly established nothing has proved to be successful. Preventive treatment would appear to give the best results, but once symptoms have developed the line of treatment really depends on the symptoms present. In cases of scour, drugs such as bismuth salicylate, opium, chalk, internal antiseptics, lemon juice, etc., have all been tried with variable success, whilst in cases showing symptoms of navel-ill and joint-ill treating the navel with iodine, formalin, etc., and also painting the swollen joints with iodine, combined often with various vaccines, prove again to be of limited success. Serums and vaccines, both preventive and curative, for all the aforementioned conditions are on the market. Some encouraging results are obtained from their use on certain farms, whilst again on other places the results are disappointing.

Nutritional Value of Dog Foods.—Phyllis M. Kon ("Veterinary Record," June 9, 1934) records a number of tests of hound meals as regards their nutritional value. The experiments show that dog foods differ greatly in their nutritional value, and that there are on the market preparations which are quite unsatisfactory in this respect. All dog biscuits contain large amounts of carbohydrate in a dry form and therefore constitute a good source of energy, although some of them unfortunately cannot be looked upon as much more. Broadly speaking, a dog's diet should contain, in addition to the sources of energy (carbohydrate and fat), adequate protein, a satisfactory supply of minerals, together with the accessory food factors, vitamins A, B complex, D and E. In the light of present knowledge of nutrition, dog foods composed only of cereals and meat may be suspected of being seriously deficient in the antirachitic factor. Unless the missing vitamin is supplied, such biscuits alone, or even supplemented with cooked meat and gravy, as is frequently the practice, will not constitute an adequate diet for young growing dogs. Winter puppies are in greater danger in this respect than are summer puppies which are exposed to sunlight. Vitamins A and D can be easily supplied, and the cheapest and simplest way would probably be to supplement the hound meal with a good brand of cattle cod-liver oil. There are also now on the market an increasing number of patent dog foods containing vitamin D.

Canadian Chemical Industry

Increasing Production and Empire Trade

THE report on the economic conditions in Canada (1933-1934),* issued this week by the Department of Overseas Trade, includes the following observations on Empire trade and production of chemicals in Canada for the fiscal year ended March 31, 1934.

The production of chemicals in the majority of lines increased last year. The larger demand was due partly to greater consumption in the textile, paint, varnish, motor vehicle and shoemaking trades and in the mining industry. The past year saw the establishment of new chemical industries and the extension of existing businesses in Canada.

Extending Production

Works for the manufacture of nicotine sulphate have been brought into production by Chemicals, Ltd., and will be capable of supplying the Canadian market with this insecticide. The manufacture of sodium silicate has been undertaken at the Niagara Falls works of the American Cyanamid Company, and a second plant (National Silicates, Ltd.) has commenced operations recently. The production of sulphur dichloride was successfully undertaken during the year by Canadian Industries, Ltd., at their Sandwich plant. Courtaulds, Ltd., commenced the extension of their manufacturing facilities by 30 per cent. and the new plant was in operation in the spring of 1934. The cellophane plant of Canadian Industries, Ltd., was extended during the year to cater for the increased Canadian and Newfoundland markets, and the production of coloured cellophane has been commenced. The development of the radium mineral deposits at Great Bear Lake has progressed, and the plant at Port Hope for the preparation of radium salts has reached the production stage. The following new developments are planned for this year:—The erection of a caustic soda and chlorine plant at Cornwall, Ontario, the erection of a synthetic muriatic acid plant at Cornwall, Ontario, and the erection of a plant for a wide range of synthetic vinyl acetate resins at Shawinigan Falls, Quebec. These undertakings were expected to be in commercial production early this year. In addition, it is also planned to produce commercially in Canada hydrogen peroxide by an electrolytic process: it is expected that this plant also will be located at Shawinigan Falls. In addition, there is a possibility that carbon tetrachloride, ethylene chloride and other acetylene chlorine derivatives may also be manufactured in Canada before the end of the present year.

Consumption Increasing

The consumption of chemicals in 1934 is expected to increase owing to an improvement in general business conditions. As the demand for various chemicals in Canada increases, it may be taken as a stated policy of the various large interests connected with the chemical industry here to endeavour to supply the requirements of the local market in so far as such production can be undertaken on a sound commercial basis. In this way it is hoped eventually to widen the scope of Canadian chemical products so that the chemical industry will keep pace with the industrial growth of the country. There were few changes in the fine chemical industry during the past year, and new lines of manufacture in this industry appear unlikely to be undertaken in 1934. The latest production figures available refer to the calendar year 1932. In that year there were 151 establishments producing medicinal and pharmaceutical preparations, with a capital of $18,379,601, employing 2,959 hands, with an output of gross $17,573,979 and net $11,978,862. The total value of imports of chemicals and allied products from all sources during 1933 was $24,068,000, a decline of $3,794,000 on the 1932 figures. Exports for 1933 to all destinations were valued at $12,604,000, an increase of $1,571,000 over 1932 shipments.

Empire Trade

Trade between Canada and the United Kingdom in chemicals and allied products for the calendar years 1927 to 1933 was as follows:—

	Canadian imports from U.K.	U.K. imports from Canada
	$	$
1927	4,347,931	3,926,063
1928	4,774,179	4,348,490
1929	5,502,453	4,729,616
1930	4,709,436	3,331,632
1931	3,896,530	2,907,638
1932	4,719,074	2,923,597
1933	5,293,912	2,902,653

Similar figures of trade in chemicals and allied products between Canada and the United States are as follows:—

	Canadian imports from U.S.A.	U.S.A. imports from Canada
	$	$
1927	22,022,448	8,246,282
1928	25,388,636	9,378,994
1929	27,403,857	11,985,346
1930	23,959,981	9,003,642
1931	21,149,849	4,546,634
1932	17,275,161	4,664,500
1933	13,692,757	5,711,005

Inspection of Medicinal Preparations

New medicinal preparations numbering 653 were submitted for registration under the Proprietary or Patent Medicine Act during the fiscal year ended March 1933. The Proprietary or Patent Medicine Division of the Department of the National Health examined and criticised approximately 1,349 labels and wrappers, 392 cartons and 428 circulars and advertisements, and particular attention was given to newspaper advertisements. Samples of medicines numbering 229 were procured and examined as to labelling; 12 seizures were made, and 27 shipments of medicines were detained at Customs ports of entry for labelling adjustments. The Advisory Board appointed under Section 9 of the Proprietary or Patent Medicine Act is empowered to decide what shall be deemed a sufficient modification of secret formula preparations containing alcohol in excess of 2½ per cent. so as to unfit them for use as alcohol beverages, and to prescribe what shall be the maximum single and daily doses of potent drugs named in the schedule of the Act. As a further protection against any probable misuse of any registered medicine containing drugs and designed for the treatment of children, the following table of dosage has been established:—Children of ten years, ½ adult dose; children of five years, ¼ adult dose; children of two years ⅙ adult dose; children of one year, 1/12 adult dose. Certain derivatives of coal-tar are forbidden in medicines to be given to infants under one year.

* Stationery Office, price 4s. 6d.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be a higher values.

28 Essex Street, W.C.2, September 27

EXCEPT for isolated black spots the markets have experienced a week of fairly satisfactory business. The general tone, particularly in natural products, is fully steady on spot, being supported by healthy and firm shipment markets. American and Canadian products are moving up for shipment on the dearer dollar exchanges. In the pharmaceutical chemicals markets an average miscellaneous business is reported. Imported products, such as PHENAZONE, BARBITONE, SULPHONAL and METHYL SULPHONAL are now steady, spot and forward, most of the cheaper spot material having been cleared. We dealt with the PHENACETIN position fully last week, and it continues unchanged. Business in crude drugs has been quite good this week and mostly for spot supplies, the demand being for home trade and not a little for shipment. AGAR has not been offered for shipment since the typhoon, but no special significance is attached to this fact. BUCHU is very firm and prices are not likely to weaken this side of the new crop next February. CASCARA SAGRADA is rather dearer forward. CHAMOMILES continue to sell well at full prices. CLOVES are slightly dearer. Norwegian COD-LIVER OIL is firm at higher figures, while the British oil has been reduced in price. DAMIANA LEAVES are short on spot, with a similar but more acute position in DERRIS ROOT. IPECACUANHA is firm, tending to advance on very short stocks. LOBELIA HERB remains at low figures. MENTHOL has been active and prices quoted show a sharp advance with the market firm. SENEGA is steadier forward on exchange. SENNA is selling slowly, with prices holding steady. TRAGACANTH is maintained at former values. In the WAX markets there has been more interest in BEES' and in CARNAUBA prices are mostly at an advance. The demand for essential oils has been maintained on the recent improved scale, and prices tend steadier with some oils firmer. American CEDARWOOD is a point firmer, with fair business reported. LEMONGRASS has been active this week and is sharply dearer; spot supplies practically exhausted. The cheap offers of PALMAROSA are off the market and the market is much steadier. PATCHOULI tends dearer forward. Japanese PEPPERMINT has been in active demand; prices show a sharp advance with the market closing firm.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	September 27	Value of the £
Amsterdam	Fl. to £	12·107	7·25	12/0¼
Berlin	Mks. to £	20·43	12·35	12/1
Brussels ...	Belgas to £	35	21·00	12/0¼
Copenhagen ...	Kr. to £	18·259	22·40	24/8
Lisbon	Esc. to £	110	109¾	19/11¾
Madrid	Ptas. to £	25·22½	36⅛	28/6¼
Milan	Lire to £	92·46	57½	12/5
Montreal ...	Dol. to £	4·86⅔	4·81	19/10
New York ...	Dol. to £	nominal	4·96	20/4¼
Oslo	Kr. to £	18·159	19·90	21/11
Paris	Fr. to £	124·21	74⅜	12/0½
Prague	Kr. to £	164·25	118¼	13/5¾
Stockholm ...	Kr. to £	18·159	19·39½	21/2¼
Warsaw ...	Zloty to £	43·38	26¼	12/1¼
Zurich	Fr. to £	25·2215	15·08	12/1¼

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

A FAIR average business continues with the orders spread well over the general range of products. Creosote, B.P., is very steady. Barbitone and sulphonal are firm. Phenacetin continues competitive.

ACETANILID.—Market steady; business quiet: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL.—Not very much inquiry: 56 lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7-lb. tins.

AMIDOPYRIN.—A steady inquiry for limited quantities on spot, with isolated offers below replacement: crystals, five cwt., 18s. 9d.; two cwt., 19s. 1¼d.; less than two cwt., 19s. 6d. per lb.; with powder, 2½d. per lb. extra.

AMMONIUM BENZOATE.—The spot value is about 3s. 4d. to 3s. 6d. per lb., as to quantity.

ASPIRIN.—A very fair business is being done, with former rates quoted: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts: Over twelve months, minimum, one ton; over six months, less than one ton.

ASPIRIN (TABLETS).—The wholesale scale of prices is as follows: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; over 1,000,000, 2s. 2d. per thousand tablets. For over one million a rebate of 1d. per 1,000 on 10 million tablets over 12 months. Wholesale distributors' prices for smaller quantities would be dearer.

BARBITONE.—Dealers' prices for shipment are very steady, as follows: one cwt., 12s. 10d.; 56 lb., 13s. 2d.; small parcels, up to 14s. per lb., f.o.b. Continent. Limited spot stocks are quoted from 14s. 3d. to 15s. per lb., as to quantity.

BISMUTH SALTS.—Makers' scales of prices for the salts are fully steady. Carbonate, one cwt., 6s. 10d.; less than 8 lb., 8s. 10d. per lb.

BROMIDES.—A moderate inquiry with quotations unchanged: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; 28 lb., 2s. 1d.; smaller quantities, 2s. 5d. per lb.; potassium B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE.—Average small business: spot., 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—British-made material is quoted as follows: one cwt., 7s. 6d.; 56 lb., 7s. 9d.; smaller quantities, 8s. Citrate, one cwt., 4s. 6d.; 56 lb., 4s. 9d.; smaller quantities, 5s. per lb. Dealers' prices for Continental material to come forward are unchanged, as follows: 250 lb., 6s. 6¼d.; 100 lb., 6s. 8¼d.; 50 lb., 6s. 11d.; less than 50 lb., 7s. 1d. per lb. Citrate, 250 lb., 5s. 5d.; 100 lb., 5s. 5¾d.; 50 lb., 5s. 7d.; less than 50 lb., 5s. 8¼d. per lb., net, carriage paid on minimum 50-lb. lots. Packages from 5 lb. and upwards free.

CALCIUM LACTATE.—Moderate business; market competitive: spot, one cwt., 1s. 0¾d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—British makers' prices for home trade, as follows: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars, one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Business has been rather restricted. British makers quote 9d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting at keen prices.

COCAINE.—Makers' home trade prices: hydrochloride, 25 oz., 25s.; 16 oz., 25s. 10d. and less 26s. 8d. per oz.; pure, 25 oz., 27s. 4d.; 16 oz., 28s. 2d.; less than 16 oz., 29s. per oz.; 1-oz. tins, 2½d per oz. extra. Export prices vary as to destination.

CREAM OF TARTAR.—British makers quote 99 to 100 per cent. at 82s. per cwt., less 2½ per cent., nominal and without engagement. Dealers are offering at about level figures.

CREOSOTE (B.P.).—Dealers are offering bulk quantities in 25-kilo. demijohns from 1s. 9d.; smaller parcels, up to 2s. 2d. per lb. Market is very steady.

GUAIACOL CARBONATE.—Market steady, with fair business. Two cwt., 9s. 10¼d.; one cwt., 10s. 0½d.; less than one cwt., 10s. 2¾d. per lb., spot.

HEXAMINE.—Business on a good scale; keen prices for large quantities: British free-running crystals, five cwt., 1s. 8d.; two cwt., 1s. 8½d.; one cwt., 1s. 9d.; 14 lb., 1s. 11d.; smaller parcels, up to 2s. 2d. per lb.; powder, cwt. lots, 1s. 5d. and less for bulk quantities.

IODIDES.—Makers' scales of prices show no further alteration: Potassium Iodide, B.P.—1 cwt., 5s.; 28 lb., 5s. 2d.; 14 lb., 5s. 4d.; 7 lb., 5s. 8d.; 4 lb., 6s. 2d.; smaller quantities, 6s. 8d. per lb. Sodium Iodide B.P.—28 lb., 6s.; 14 lb., 6s. 2d.; 7 lb., 6s. 7d.; 4 lb., 7s. 4d.; smaller quantities, 7s. 10d. per lb. Iodine Resub. B.P.—1 cwt., 6s. 1d.; 28 lb., 6s. 3d.; 14 lb., 6s. 5d.; 7 lb., 6s. 10d.; 4 lb., 7s. 4d.; smaller quantities, 8s. 4d.

per lb. Iodoform B.P.—28 lb., 8s. 8d.; 14 lb., 8s. 10d.; 7 lb., 9s. 5d.; 4 lb., 10s. 2d.; smaller quantities, 11s. 2d. per lb.; net, cash fourteen days. One cwt. may be assorted at respective minimum prices; 28 lb. may be assorted at respective 28-lb. prices. Jars extra, returnable; 28-tins free, not returnable. Cases free for 1-cwt. lots. Carriage paid on any quantity. Contracts may be booked, with a reduction clause, for 1 cwt. and upwards for delivery over four months. Wholesale distributors' prices for smaller quantities would be dearer.

LACTIC ACID (B.P.).—Market rather quiet and competitive: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10d. per lb., as to quantity.

MERCURIALS.—Makers' prices are as follows:—

—	Under 112 lb.	Not less than 112 lb.
	Per lb. s. d.	Per lb. s. d.
Ammoniated lump, B.P. (white precip.) ...	4 10	4 9
Ammoniated powder, B.P.	5 0	4 11
Bichloride lump, B.P. (corros. sub.)	4 1	4 0
Bichloride powder, B.P.	3 9	3 8
Chloride, B.P. (calomel)	4 10	4 9
Red oxide cryst., B.P. (red precip.)	5 11	5 10
Red oxide levig., B.P.	5 5	5 4
Yellow oxide, B.P.	5 3	5 2
Persulphate white, B.P.C.	5 0	4 11
Sulphide black (hyd. sulph. cum. sulph.) 50 per cent.	4 11	4 10

Net, without engagement. Special prices for large quantities and for contracts deliverable three months.

METHYL SALICYLATE (B.P.).—More inquiry, with quoted prices unchanged: ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' prices for shipment are steady, with most spot goods at the same figures: two cwt., 17s. 6d.; one cwt., 17s. 11d.; 56 lb., 18s. 4d.; small parcels, 19s. 3d. per lb.

METOL.—Business remains quiet: 28 lb., 9s. 6d.; 14 lb., 9s. 9d. per lb., carriage paid. Wholesale distributors' prices for smaller quantities would be dearer.

PARAFORMALDEHYDE.—A moderate inquiry; market keen: 100 per cent. powder, quantities in kegs, 1s. 2¾d. to 1s. 3d.; smaller parcels, up to 1s. 6d. per lb.

PHENACETIN.—There is little change to report. The market continues keenly competitive, with quantities from about 2s. 9d. and smaller parcels from 3s. to 3s. 6d. per lb., as to quantity.

PHENAZONE.—Rather more inquiry and prices are now fully steady: crystals, five cwt., 10s. 7¾d.; two cwt., 10s. 10d.; and less, up to 11s. 6d. per lb.; with powder, 2½d. per lb. extra.

PHENOLPHTHALEIN.—Quoted prices for home makers are unchanged: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYL ETHYL BARBITURIC.—A steady inquiry, with limited quantities on spot at 28s. 3d. to 29s. per lb., in 2-lb. bottles.

POTASSIUM PERMANGANATE (B.P.).—Quite a good business; market very steady: quantities, in two-cwt. drums, 9½d.; druggists' parcels, 9¾d. to 11d. per lb., as to quantity.

QUININE SULPHATE.—Prices are steady at the recent advance: Sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8¾d.; salicylate, 2s. 9½d.; phosphate, 3s. 2½d.; hydrochloride, 2s. 7½d.; bihydrochloride, 2s. 10¾d.; hydrobromide, 2s. 7½d.; bihydrobromide, 2s. 10¾d.; valerianate, 3s. 7d.; hypophosphite, 3s. 10¾d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities.

RESORCIN.—British material available as follows: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., 6s. per lb.

ROCHELLE SALTS.—Makers' scales of prices show no further change: Rochelle salts, less than one cwt., 77s. 6d.; less than five cwt., 75s.; not less than five cwt. in one delivery, 72s. 6d. per cwt.; with crystals, 2s. 6d. per cwt. extra. Seidlitz, B.P., less than one cwt., 62s. 6d.; less than five cwt., 60s. 6d.; not less than five cwt. in one delivery, 58s. 9d. per cwt. Double seidlitz, less than one cwt., 69s.; less than five cwt., 67s.; not less than five cwt. in one delivery, 64s. 9d. per cwt. Carriage paid on one cwt. and over.

SALICYLIC ACID (B.P.).—A little better inquiry with quoted values unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 11d.; 4 lb., 2s. 1d. per lb.

SALOL.—Market is dull: spot, crystals, two cwt., 3s. 10d.; one cwt., 3s. 11½d.; 56 lb., 4s.; smaller parcels, 4s. 3d. per lb.; powder, 2d. per lb. extra.

SANTONIN.—Values are about unchanged on the week with one kilo. parcels at £14 10s.; five to ten kilo. lots, about £14 per kilo.

SODIUM BENZOATE (B.P.).—A very fair inquiry with cwt. lots at about 1s. 7d. and less for bulk quantities. Small parcels, from 1s. 8d. to 1s. 11d. per lb.

SODIUM DIETHYLBARBITURATE.—Market is rather quiet with isolated cheap sellers: spot, one cwt., 14s. 6d.; 28 lb., 15s.; 14 lb., 15s. 3d.; 7 lb., 15s. 6d.; 1 lb., 16s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—More inquiry, with quoted values unchanged: home trade, crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

SULPHONAL.—Dealers' prices, spot and forward, are steady; more inquiry being received: crystals or powder, two cwt., 14s.; one cwt., 14s. 5d.; 56 lb., 14s. 7d.; smaller parcels, up to 15s. 3d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Not so much interest in the market; competition keen. British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting level prices.

THEOBROMINE.—Continental material to come forward is steady at former prices: pure, 250 lb., 6s. 6¼d.; 100 lb., 6s. 8¼d.; 50 lb., 6s. 11d.; less than 50 lb., 7s. 1d. per lb. Sodium salicylate, 250 lb., 6s. 4½d.; 100 lb., 6s. 5¾d.; 50 lb., 6s. 6¼d.; less than 50 lb., 6s. 7¾d. per lb., net, carriage paid on minimum 50-lb. lots. Packages from 5 lb. upwards free.

THYMOL.—A limited inquiry; market about steady: synthetic, fine white, two cwt., 5s. 7d.; one cwt., 5s. 9d.; 56 lb., 5s. 11½d.; 28 lb., 6s. 3½d.; 14 lb., 7s. per lb.; ex ajowan seed, one cwt., 8s. 3d.; 56 lb., 8s. 6d.; 28 lb., 9s.; 14 lb., 10s. per lb.

VANILLIN.—Inquiry is mostly for small quantities; some cheaper offers: ex guaiacol or clove oil, five cwt., 13s. 3d.; one cwt., 13s. 6d.; 56 lb., 13s. 9d.; less, 14s. per lb.

Crude Drugs, etc.

ACONITE ROOT.—Dealers quoting Napellus at 75s. and Japanese at 55s. per cwt., spot.

AGAR.—The spot market is fully steady. Kobe No. 1, 1s. 11½d.; No. 2, 1s. 10½d.; Yokohama No. 1, 1s. 10d. per lb. Shipment is nominally unchanged, with no prices cabled since the typhoon of last week.

BALSAMS.—*Tolu*, is dull and quoted on spot at 1s. 10d.; *Canada* is firmer and dearer at 2s. 3d. *Peru* well maintained at 5s. 4½d. per lb., spot.

BUCHU.—This market continues firm, with spot supplies moving steadily at full prices. Stocks at origin are small and quoted slightly dearer. New crop not expected to arrive on this market till the end of February next. Good green rounds, 1s. 4d.; ordinary to fair, 1s. 1½d. to 1s. 2d.; ovals, from 10d. to 11d. per lb., as to quality.

BURDOCK ROOT.—Spot supplies are quoted in the region of 65s. per cwt., as to quantity.

CAMPHOR.—Market is steady; business limited: spot, slabs, 2s. 1d.; flowers, 2s. 1½d.; tablets, 2s. 5d. per lb.; shipment, slabs, 1s. 10d.; flowers, 1s. 10½d.; tablets, 2s. 1½d. per lb., c.i.f. English refined is still unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz. and ⅓ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CASCARA SAGRADA.—The shipment market for this year's peel is rather dearer: 32s. to 33s. per cwt., as to quantity, c.i.f. Spot, 1933 peel, steady from 40s. to 42s. per cwt.

CHAMOMILES.—There has been a sustained demand and the market is firm as quoted from 240s. for good white flowers and 220s. per cwt. for seconds, spot.

CLOVES.—At the advance recorded the market is steady, with limited business reported. Zanzibar, spot, 6¼d.; shipment, September, 5⅞d.; October-December, 6⅛d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended September 22 were 104 and the deliveries 256, leaving a stock of 3,545. From January 1 to date landings of Zanzibar have been 4,319 and the deliveries 3,293. Landings of Madagascar for the week ended September 22 were *nil* and the deliveries *nil*, leaving a stock of 550. From January 1 to date, landings of Madagascar have been 296 and the deliveries 728 packages.

COCONUT (DESICCATED).—Business has been rather better, market quoted dearer and now steady: spot, fine, 16s.; medium, 16s. 6d.; shipment, halves, September-October, 15s. 9d. per lb., c.i.f.

COD-LIVER OIL.—Bergen reports shipments to September 24 totalled 62,204 barrels, compared with 61,333 barrels at the same date last year and 63,685 in 1932. The shipment market is reported firm, with finest Lofoten steam-refined non-freezing medicinal oil at 90s. per barrel, c.i.f. Spot, in small lots,

130s. per barrel, ex store, duty paid. Newfoundland, finest non-freezing medicinal oil, 132s. per barrel, ex store. British non-freezing medicinal oil is now quoted at the lower figure of 115s. per barrel, c.i.f., London, duty free.

COLCHICUM.—Root is rather dearer at about 45s. per cwt. and more for small lots ; seeds quoted at 1s. 2d. per lb., spot.

COLOCYNTH.—It is reported that one parcel of pulp is available on spot.

DAMIANA LEAVES.—Supplies seem to be very low here and the price for small parcels is well up to 1s. 10d. per lb. Good export business is reported.

DERRIS ROOT.—Practically nothing offering on spot, value nominal. Shipment, from 9½d. to 11½d. per lb., c.i.f., as to test.

ERGOT.—Inquiry has been limited this week: spot, small lots, Spanish, 1s. 8d.; Portuguese, 1s. 7d.; Polish, 1s. 6d.; Russian, 1s. 4½d. per lb.

GELATIN.—British, No. 1, 80s.; No. 2, 70s. per cwt., in bags, carriage paid, less 2½ per cent. discount.

GENTIAN.—Dealers are offering good clean root at about 45s. per cwt., spot.

GINGER.—Values are slightly better but the market is dull. West African, spot, 28s. per cwt.

GUM ACACIA.—Market has been rather dull and is somewhat easier: spot, Kordofan cleaned sorts, 37s.; bleached, 70s. to 72s. 6d. per cwt.; shipment, Kordofan cleaned sorts, 35s. 3d. per cwt., c.i.f.

HENBANE.—Supplies to arrive here are being quoted at about 75s. per cwt.

HYDRASTIS.—Market remains dull. Spot, 5s.; with shipment fully 4s. 6d. per lb., c.i.f.

IODINE.—Crude continues to be quoted at 10s. per kilo.

IPECACUANHA.—Sales from very limited stocks are reported, and the spot market for Matto Grosso is now firm from 4s. 6d. upwards, as to quantity. Minas is also steady at 3s. 9d. to 3s. 10d. per lb.

LAVENDER FLOWERS.—New crop French good blue flowers are being offered at about 160s. per cwt., spot.

LIQUORICE ROOT.—Still slow of sale, with quantities at about £13 10s. per ton.

LOBELIA HERB.—The shipment market is still at low figures in the region of 8½d. per lb., c.i.f. Spot offers are at about 1s. to 1s. 1d. per lb., as to quantity.

LYCOPODIUM.—Treble sifted is offered on spot at about 2s. 8d. per kilo.

MENTHOL.—A week of active business is recorded, with prices advancing and the market closing firm on Wednesday. K/S brands, spot, 12s. 6d.; in bond, 11s. 6d.; shipment, October-December, 11s. 6d. per lb., c.i.f. sellers. Japanese shippers quoting firm at 11s. 9d. per lb., c.i.f. Business has been chiefly for spot goods, with a good demand from the Continent for goods in bond. Thursday mid-day: Market continues firm but rather quieter. Spot, 12s. 7½d.; in bond, 11s. 6d.; O/D, 11s. 6d.; Japanese shippers, 11s. 10d. per lb., c.i.f.

MERCURY.—Market continues steady with average business. Spanish-Italian, shipment, 56 dollars 50 cents per bottle, f.o.b. Continent. Spot, in small lots, £11 9s. per bottle, ex store.

PEPPER.—Values are dearer again this week, but the market is much quieter. Lampong, spot, 5½d.; shipment, August-October, 4 15/16d.; October-December, 5d.; January-March, 5 5/16d. per lb., c.i.f. Tellicherry, spot, 5¾d.; shipment, September-November, 54s. 6d., c.i.f. Aleppy, spot, 5½d.; shipment, September-November, 53s. 6d., c.i.f. White Muntok, spot, 11¾d.; shipment, August-October, 10⅝d.; October-December, 10⅝d.; January-March, 10⅞d. per lb., c.i.f. Delivery, October, 11½d.; January, 1s. per lb.

PIMENTO.—Market is steadier, with shipment quoted dearer. Spot, 2¾d.; shipment, October-November, 21s. 6d. per cwt., c.i.f.

QUILLAIA BARK.—Whole bark is quoted at 29s. per cwt. and crushed at 35s. per cwt.

RUBBER.—Values are level on the week, closing dull. Standard ribbed smoked sheet, spot, 7 5/16d.; shipment, October, 7 5/16d.; November 7⅜d.; December, 7¾d.; January-March, 7½d.; April-June, 7 11/16d.; July-September, 7 13/16d. per lb.

SAFFRON.—Dealers' quoted prices are steady, business in small parcels. Spot, prime B.P., 55s.; extra B.P., 54s.; super B.P., 52s. 6d. per lb., and slightly less for bulk quantities.

SEEDS.—ANISE.—Spot, Spanish, 67s. 6d.; Bulgarian, 46s. 6d. CARAWAY.—Dutch quoted at 36s., duty paid, and 29s., f.o.b. CORIANDER.—Market quiet, Morocco spot offering at 15s. Wormy sold at 13s. 6d. For shipment, September-October, 10s. 9d., c.i.f. quoted. CUMIN.—Malta has all been cleared on spot. Morocco, on spot, 57s. 6d. is being asked. FENUGREEK.—Tunisian 14s. 6d., Morocco 13s., duty paid. MUSTARD.—English, 23s. to 32s. per cwt., according to quality.

SENEGA.—The spot market continues to be quoted at 1s. 2½d. per lb. for small parcels; shipment tends to be dearer on the dollar exchange at 1s. 1d. per lb., c.i.f.

SENNA.—ALEXANDRIAN: Market is steady, with an acute scarcity of finest hand-picked pods. Recent arrivals have been infested with weevil, and it is probable that some months must elapse before any really good sound pods are available. Prices are dearer, with holders' limits for fair No. 2 quality advanced by 6d. per lb. There has not been any change in Tinnevelly, with supplies of prime quality new crop leaves offering as follows: best bold selected, 8½d.; No 1, 6d.; No. 2, 4d.; No. 3, 3¼d. per lb., ex wharf. F.a.q. leaves at about ½d. less. Finest pale new crop hand-picked pods offer at 6d. and darkish quality at 4d. per lb. F.a.q. command little attention with fair supplies available at 1¾d. to 3¼d. per lb.

SHELLAC.—Values are better on the week, business fair forward, dull on spot. Spot, TN orange, 95s. to 100s.; fine orange, 125s. to 155s.; pure button, 125s. per cwt. For delivery, TN, October, 94s. 6d.; December, 97s. For arrival, TN, September-October, 94s. per cwt., c.i.f.

SQUILL.—New crop fair white is quoted from 24s. to 25s. per cwt., as to quantity.

STRAMONIUM.—A fair business reported, with new crop leaves at about 55s. per cwt.

TRAGACANTH.—A very fair demand for industrial qualities is reported, with interest in other grades rather slow this week. Prices for druggists' quality are firm with supplies very limited.

VALERIAN ROOT.—Dealers continue to offer spot root at about 60s. per cwt.

WAX (VARIOUS).—BEES'—Market is firm with a sustained inquiry. Abyssinian, spot, 102s. 6d.; shipment, 91s. per cwt., c.i.f. Benguella, spot, 105s.; in bond, 95s.; shipment, 88s., c.i.f. Conakry, spot, 102s. 6d.; shipment, 88s., c.i.f. Dar-es-Salaam, spot, 105s.; shipment, 97s., c.i.f. Madagascar, spot, 102s. 6d.; shipment, 95s. per cwt., c.i.f. In CARNAUBA the feature is the lack of offers for near positions for shipment. Spot stocks are limited and prices are quoted dearer. Fatty grey, spot, 112s. 6d.; in bond, 102s.; afloat, 100s.; shipment, September-October, 100s., c.i.f. nominal. Chalky grey, spot, very scarce, 102s. 6d.; in bond, 95s.; shipment, 90s., c.i.f. Primeira, fair business at advanced figures. Spot, 167s. 6d.; in bond, 155s.; no offers for near shipment. Mediana is short on spot ; in bond, 147s. 6d.; shipment, nominal. New crop, restricted offerings, with December-January at 91s., c.i.f. for fatty grey and 87s. 6d. for chalky grey. Primeira new crop is nominal at 140s., c.i.f.

Essential Oils, etc.

BUSINESS has been quite satisfactory this week, the general interest being rather better. American oils tend firmer on current dollar exchange. Japanese peppermint has been active and shows a sharp advance, closing firm. Lemongrass is much dearer on the week, closing firm for shipment.

ALMOND.—Business in small parcels at former prices. English, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb. Foreign, cwt. lots, 2s. 4d.; smaller parcels, up to 2s. 7d. per lb.

ANISE (STAR).—Market is steady but rather neglected: "Red Ship," in leads, 1s. 11½d.; in tins, 1s. 10d.; in drums, 1s. 8¼d.; shipment, in leads, 1s. 9½d.; in tins, 1s. 8d.; in drums, 1s. 7¼d. per lb., c.i.f.

BERGAMOT.—Negligible inquiry for shipment, with quotations about 5s. 6d. per lb., c.i.f., as to brand and quantity. Spot oil is quoted from 5s. 2d. to 5s. 9d. per lb., as to quality.

BOIS DE ROSE.—Not much business moving ; market steady. Brazilian, spot, 4s. 9d. to 5s.; shipment, 4s. 6d. per lb., c.i.f.

CAJUPUT.—Occasional business ; market steady. Spot, from 2s. to 2s. 3d. per lb.; green, 1s. 9½d. to 1s. 11d. per lb., as to quantity.

CANANGA.—Recent advances in value are fully maintained. Spot, about 10s. and shipment firm at 9s. per lb., c.i.f.

CARAWAY.—A very fair business ; market steady. Dutch rectified, five cwt., 8s. 6d.; one cwt., 8s. 10d.; smaller quantities, up to 9s. 5d. per lb.; crude, 5d. per lb. less.

CASSIA.—Spot supplies are rather limited, with the value steady from 3s. 10½d. to 3s. 11d.; shipment is maintained at 3s. 3d. per lb., c.i.f.

CEDARWOOD.—Slightly firmer conditions are reported here, with a very fair business recorded. American, spot, 1s. 3¾d. to 1s. 4d. per lb., in drums ; shipment, firm from 1s. 2d. per lb., c.i.f.

CINNAMON LEAF.—Inquiry for Ceylon oil is restricted in volume; spot quoted at about 2s. 9d. to 3s. per lb., as to quantity.

CITRONELLA.—Shipment business is slow ; some limited sized spot orders. Ceylon is steady, with spot at 1s. 3½d. to 1s. 4d. for small lots ; shipment, about 1s. 2½d. per lb., c.i.f. Java

is dull: spot, 1s. 6d. for small lots ; shipment, about 1s. 2¼d. per lb., c.i.f.

CLOVE.—A fair inquiry and the shipment market is fully steady. Madagascar, spot, 3s. 4d. to 3s. 6d.; shipment, 2s. 5d. per lb., c.i.f. English-made B.P., quoted from 3s. 6d. to 3s. 9d. per lb. and less for bulk quantities.

EUCALYPTUS.—The Empire oil is fully steady forward with a fair inquiry. 70 to 75 per cent., 11½d. to 1s.; 80 to 85 per cent., 1s. to 1s. 1d. per lb., landed, in fair quantities. Spanish, 70 to 75 per cent., 1s. 2d. per lb.

GERANIUM.—Not much inquiry for Bourbon for shipment, but quotations for good quality oil are keeping steady at about 20s. per lb., c.i.f. Spot oil varies in price as to quality in the region of 22s. 6d. per lb.

LAVENDER.—Rather more offers for new crop French oil are now being received, with the finest Mt. Blanc, 38 to 40 per cent., quoted up to 18s. 3d. per lb., landed ; other offers range down to 15s. 6d. per lb. Inquiry in this market is so far restricted, while conditions at the source continue to be reported strong. Lavindin, new crop, is offering from 9s. 9d. to 10s. 6d. per lb., landed, in good quantity.

LEMON.—Shipment offers of oil described as Sicilian hand-pressed continue at keen rates of about 3s. 2d. to 3s. 4½d. per lb., c.i.f., but they are not attracting much business. Spot oil is quoted round about 3s. 6d. per lb. Californian is steady, with occasional small demand: in large drums, 1s. 10¾d.; in small drums, 1s. 11¼d. per lb., spot. Present dollar exchange tends to make prices firmer.

LEMONGRASS.—The feature of the spot market is the shortage of supplies, with the price nominal at about 4s. per lb. Shipment is also firm: September-October, 3s. 7d.; October-November, 3s. 6d.; November-December, 3s. 5½d. per lb., c.i.f.

LIME.—Business in small parcels is sustained, with prices for West Indian distilled about 22s. to 23s. per lb., as to quantity, spot.

ORANGE.—There has been no improvement in inquiry for oil described as Sicilian sweet and quoted at about 6s. to 7s. per lb., c.i.f. Spot values are in the region of 6s. 9d. to 8s. 6d. per lb. French Guinea oil has been selling in drum lots on spot at about 3s. 4d. up to 3s. 6d. per lb. for small parcels. Californian is steady, with a fair sale reported: one case, 2s. 4¾d.; two or more cases, 2s. 4¼d. per lb., spot. Present dollar exchange tends to make prices firmer.

PALMAROSA.—A good deal of the cheap offers on spot have been taken off the market and shipment is rather firmer. Spot, small lots, 5s. 8d. to 5s. 9d.; shipment, 5s. 2d. per lb., c.i.f.

PATCHOULI.—Fair business; market steady. Singapore, for shipment, firmer at 6s. 3d., c.i.f.; spot, in small lots, from 6s. 6d. per lb.

PEPPERMINT.—There has been considerable activity in the market handling the Japanese article, with business on spot and for near positions. Prices have advanced, with Japanese shippers quoting higher rates. At the close on Wednesday the general tone was firm. Spot, 4s. 9d.; afloat, 4s. 9d.; shipment, October-December, 4s. 9d. per lb., sellers; Japanese shippers quoting at 4s. 11d. per lb., c.i.f. Thursday mid-day: Quotations for all positions were unchanged ; market continues firm, but business has so far been quieter. The American natural oil, in drums, is steadier this week, with good brands at 3 dollars 55 cents per lb., c.i.f. Conditions at the source are strong.

PETITGRAIN.—Occasional inquiry ; market steady. Spot, 4s. 3d. per lb. and possibly slightly less ; shipment, 3s. 8d. per lb., c.i.f.

ROSEMARY.—Market tends to be rather easy as quoted. First quality, 1s. 9d.; second quality, 1s. 5d. per lb., c.i.f., for good quantities.

SAFROL.—It is difficult to obtain offers from the source. Continental offers of limited quantities, about 1s. 7d. per lb., c.i.f.

SANDALWOOD.—English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Genuine East Indian Mysore, 19s. per lb., in one-case lots.

SASSAFRAS.—Quite a fair business reported and prices for a good average quality oil are dearer in the region of 3s. 9d. per lb., with the finest up to 5s. 4d. per lb. Artificial oil at cheaper prices.

SPEARMINT.—Market is fully steady and there has been a fair inquiry. Spot, 9s. 9d.; shipment, 8s. 10½d. per lb., c.i.f.

SPIKE.—Shippers are keeping their quotation for the finest Spanish from 5s. 3d. per lb., c.i.f. French oil is being quoted at about 7s. 9d. per lb., c.i.f.

WORMSEED.—Market is keeping very steady. Spot, about 10s. 3d. for small quantities ; shipment, 9s. 3d. per lb., c.i.f., tends to be dearer on exchange.

Commercial Notes

INDIAN NUX VOMICA EXPORTS.—Shipments for the past three years, ended March 31, were as follows: 1932, 20,800 cwt.; 1933, 20,000 cwt.; 1934, 59,000 cwt.

SOUTH AFRICAN BUCHU EXPORTS.—Shipments from Capetown for the period January-June, 1934, totalled 131,483 lb., valued at waarde 3,684, compared with 138,947 lb., valued at waarde 3,801 during the same period of 1933.

U.S.A. ESSENTIAL OIL EXPORTS.—Shipments for the first six months of 1934, as compared with the same period of 1933, were as follows:—

	1933		1934	
	Quantity	Value	Quantity	Value
		$		$
Peppermint ... ... lb.	123,292	227,335	126,291	320,727
Spearmint and other mint oils, n.e.s. lb.	13,972	14,421	29,251	37,521
Citrus oils ... ... lb.	20,884	28,453	51,358	52,729
Pine ... ... gal.	351,263	199,312	500,597	263,261
Other natural essential and distilled oils ... ... lb.	499,837	224,311	687,565	251,075
Blended, compounded, or mixed perfume-flavour oils, exclusive of synthetic aromatic compounds lb.	26,130	53,634	35,171	87,967

ARGENTINE CASEIN EXPORTS.—Shipments during the first half of 1934 were slightly greater than exports during the first half of 1933:—

Destination	First six months		Destination	First six months	
	1933	1934		1933	1934
	Lb.	Lb.		Lb.	Lb.
Germany...	5,140,364	4,165,097	England ...	1,752,705	2,311,880
Belgium ...	113,280	146,335	Italy ...	646,865	422,860
Danzig ...	—	15,000	Japan ...	954,300	549,860
Denmark...	10,020	—	Latvia ...	85,200	200,386
Spain ...	318,361	319,700	Lithuania	15,000	30,000
Un. States	801,757	307,676	Mexico ...	38,340	54,000
Estonia ...	20,040	20,460	Norway ...	50,100	60,120
Finland ...	465,600	671,810	Syria ...	—	1,980
France ...	7,040	—	Sweden ...	384,540	298,560
Netherlands	516,360	1,016,320	Total ...	10,592,044	11,319,872

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1934, p. 304.

(From "The Trade Marks Journal," September 12, 1934.)

"WORMEXA" ; for animal medicines (2). By K. Howard, 8 Whiting Street, Bury St. Edmund's. 552,001.

"COURLANDROL" ; for chemicals (2). By H. Courlander, 40 Sackville Street, London, W.1. 552,618.

"TIPOFF" ; for rat destroying preparations (2). By B. C. Tipper & Son, Ltd., 43-45 Homer Street, Balsall Heath, Birmingham. 553,067.

"RHEUMAGIC" with facsimile signature ; for a liniment (3). By Pickups, Ltd., 30-42 Smedley Street, London, S.W.8. 545,883. (Associated.)

"SEAPINES" ; for lozenges containing a pine product (3.) Martyns Stores, Ltd., 359 Burley Hill, Leeds. 550,568.

"CARMILE" ; for all goods (3). By International Laboratories, Ltd., 30-42 Smedley Street, London, S.W.8. 552,411.

"SANISEAT" over words "Your Protection from Infection" ; for w.c. seat covers of medicated paper (3). By The Saniseat Co., 12 Holborn Viaduct, London, E.C.1. 551,076.

"PAROMIN" ; for medicinal chemicals (3). By Paines & Byrne, Ltd., Bilton Road, Greenford, Middlesex. 552,460.

"SAES EFFERVESCENTES DE CARLSBAD" on banner carried by boy ; for medicated Carlsbad salts (3). By Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool. 552,541. (Associated.)

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Pharmaceutical Society of Northern Ireland

SIR,—May I beg the hospitality of your pages to return to all my friends of the druggists' branch of the Pharmaceutical Society of Northern Ireland my most sincere and grateful thanks for the high compliment paid me in returning me unanimously to a seat on the Council of that body? I should like to assure them of my appreciation of the honour paid me and the confidence reposed in me, and that I will at all times endeavour to serve them to the best of my ability and skill. The dignity of this ancient branch, in fact the first in the "field" in the collection, preparation and distribution of medicines, will always be my special care.—Yours truly,

J. F. GRIMES.

Pomeroy, co. Tyrone.

The Pharmaceutical Society's Brunswick Square Scheme

SIR,—When the proposals for the draft Pharmacy and Poisons Bill were first circulated to the local branches members were opposed to the figures for the registration fees for shops and for compulsory membership on the grounds that a maximum fee tended to become the minimum. In order to overcome what opposition might arise from this, it was explained that this was not to be the case but that the fees would be fixed reasonably, and the membership fee at present is 31s. 6d. as before, the shopfee not yet being stated. When we read the comments of Mr. F. Gladstone Hines (*C. & D.*, September 15, p. 334) on the proposed Brunswick Square scheme, and digest the figures he gives of the capital outlay and the cost of upkeep, it is evident that in course of time the fees will have to be raised to the maximum to meet the expenditure. It is well known that larger premises invariably breed larger staffs, and if the *personnel* is to be increased at the same ratio as the annual charges it is easy to see why the additional income from fees will be required. It may not be necessary for the Pharmacological Laboratories to be housed in London, or at any rate right in the centre, but London is still the hub of most activities, and for that reason it is necessary to have the headquarters of the Society, the School of Pharmacy and the examination rooms located there. Mr. Hines congratulates THE CHEMIST AND DRUGGIST on allowing him to bring these schemes to publicity, but I think he is also to be congratulated for his courage in performing such a task for the members. The latter have often been accused of apathy and indifference, but how can they be enthusiastic when they are kept in ignorance?—Yours faithfully,

FEE PAYER (22/9).

Poisons List

SIR,—No doubt there will be many alterations to the Poisons List before it is sanctioned, and I should like to take the opportunity of suggesting a few in case they have not been dealt with already: (1) As to a percentage for acetanilide, I quite agree that acetanilide should be a poison in Part I, but I cannot see the necessity for including preparations containing a small proportion of it; (2) areca nuts should most certainly not appear in Part I of the List—it may be necessary to reduce the percentage of arecoline below 0.1 so as to exclude the nuts; (3) as regards emetine, tincture, lozenges and ipecacuanha wine ought to be excluded from Part I; (4) paraform should, and I think will, be included with the polymers of formaldehyde, otherwise it will be necessary to label many throat lozenges containing this substance as "poison"; (5) some percentage is indicated for santonin—it was surely not intended to make worm lozenges and worm cakes Part I poisons. There is work waiting to be done in compiling a list of all proprietary medicines now on the market which come within Part I of the suggested Poisons List. This will be a big job, but it may be wise not to start on it until the Poisons Board has dealt with the many suggestions sent in.

Yours truly,

COUNTRY CHEMIST (22/98).

Side Tracking

SIR,—I thought I would head my letter as above, as it seems to fit the points I have in mind. Friday morning always brings me pleasure in the reading of THE CHEMIST AND DRUGGIST, and during the last few weeks several items, especially in the correspondence section, have rather ticked my fancy. Why is it that it is always the manager who does all the idiotic things in pharmacy such as pushing a poor pennyworth of aspirins on a customer, whereas a private owner would at least have got away with a sixpenny sale? Again, it is the manager who insults customers and frightens them away for good, and so on; always, of course, it is the manager who is to blame. Now having seen inside and out of pharmacy myself for a good number of years, I have always considered that, man for man, a manager is far and away ahead in every way than the chemist owner. The manager, besides having his bread and butter to earn, just has to keep the shop returns either up or at least level, to feel easy in his mind, for he knows that if the returns drop he will probably be replaced. Also what about the commission that the majority are offered as a reward for good work? They would not get much if they did do these silly things. I am sure many owners, if they took over a shop from their manager, would have a big difficulty in keeping up the returns. For general business methods, buying, display, shop cleanliness, etc., managers have the private owners beaten to a frazzle. The majority of private owners seem content to make a bare living and do plenty of grumbling, instead of doing a bit of graft and getting results. Again, may I ask why so many employers, on requiring an employee, advertise under a box number? Do they not realise that it stops many a person from applying? Surely an employer need not hide his name and address. The most galling thing of all is the reading under "Situations Vacant" of someone requiring a qualified chemist and offering £3 10s. a week as salary. What is pharmacy coming to? Fancy spending a good sum of money to qualify and then taking a job at £3 10s. a week. A clerk without any specialised knowledge can earn that. I think it is about time the Pharmaceutical Society gave more attention to their qualified men, even if it meant forming two sections of the Society, one for employers and one for employees, drawing up certain conditions and stating that a qualified man must be paid a minimum weekly wage of £5. After all said and done, the qualified employee has to pay his "sub" to the Society just the same as an employer.—Yours faithfully,

EMO (19/9).

Bonus Offers

SIR,—Your correspondent, Mr. E. W. Ewell (*C. & D.*, September 22, p. 385), raises an interesting point regarding the sale of both the stamped and unstamped pack of a proprietary at the same price. Perhaps we shall shortly have an official ruling regarding the legality of this, for the present custom of the manufacturer seems irregular when considered logically. Apart from the considerations raised, it is getting more and more difficult to select bonus parcels of winter lines. Whereas a few years ago there were definite leaders in any particular type of preparation, the very intense competition amongst manufacturers to-day has resulted in the unnecessary duplication of remedies for any one ailment. As most of these competing products are well advertised, they all sell moderately well, but none seem to tower above their fellows in the way they used to. The amount spent on advertising any particular group has probably been trebled during the past ten years, but the total volume of sales of the group have not followed suit. Destamping has put more

money into the advertising of the various proprietaries, but the chemist and manufacturer have not reaped a corresponding benefit. If we look at such classes of goods as chest applications, nasal inhalants, throat lozenges and tablets, vitamin preparations, and so forth, we find that the tendency seems to be for many to enjoy a moderate sale but few, if any, a really good sale. The chemist who has but a moderate turnover and has to exercise some care as to how he invests his capital must think very hard before he accepts some of these tempting bonus offers. For many the wisest course will be either to pack his own competing line or to take up the equivalent line of a reliable firm carrying a really good profit and devote his main selling effort to such a line, the bonus offer line being stocked in very moderate quantities. The extra 5 per cent. window display allowance which bonus parcels frequently carry is a very poor return for valuable window space and the extra 5 per cent. quantity discount is poor recompense if the goods hang fire or have to be kept on the shelves for another season. Apart from this, there is always the risk that packs will be altered or increased in size before another season comes round. Where capital is strictly limited, it often proves a better plan to carry a wider range of goods sooner than lock up capital in a gross or half-gross of a particular line. I have often wondered if there are any chemists in business to-day who turn a deaf ear to all bonus or quantity discounts and prefer to seek other channels for their profits. Perhaps a few will let us have their views and experiences.—Yours faithfully,

BONUS DOUBTER (21/98).

The Retention Fee

SIR,—I am not quite clear as to my position under the new Act. I am a hospital pharmacist; only for a brief period have I worked in an open shop since qualifying, and I have not been a member of the Society for years. It is our "dog licence" we have to produce to show we are qualified, not our grand membership certificate! I have not received any sort of notice about my name being erased, but that may come yet. If I do not renew my membership then, do I cease to become a qualified person? I am not going to join the Society now if I can help it, as I consider that clause is quite improper. It is not the money I mind now. I have subscribed to the *C. & D.* for years; there's so much more meat in it than in the official organ of the Society.—Yours faithfully,

QUALIFIED CHEMIST (27/8).

Legal Queries

C. P. (15/8).—Cachets containing amidopyrin, either alone or with any other ingredients, come within Part I of the provisional Poisons List.

O. R. W. (27/7).—The Commissioners of Customs and Excise permit pharmaceutical chemists and chemists and druggists to sell small quantities of alcohol, not exceeding 5 fluid ounces at a time, to medical and scientific persons for purposes of medical or scientific research.

W. F. G. (7/9).—Unqualified persons may, under the Poisons and Pharmacy Act, 1908, sell preparations containing not more than 3 per cent. of phenols, but since a well-known legal decision in 1925 it has been held that lysol must contain about 50 per cent. of cresols (phenols).

C. U. L. (2/11) has an apprentice to whom he is required, under the service agreement, to pay 5s. a week during the first year, 10s. a week during the second year and 15s. a week during the third year. The lad has served for a year, and an inspector has stated that he must be insured under the National Health and Unemployment Insurance schemes because he receives a money payment. Can this liability be avoided if "C. U. L.," instead of paying the money to the apprentice, pays it to the latter's landlady towards his board and lodging? [In our opinion, since under the contract the apprentice is entitled to a money payment, his liability to be insured cannot be removed in the way suggested.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. I. P. (25/98).—PICTURE VARNISH.—A formula for a picture varnish is as follows:—

Mastic	12 oz.
Venice turpentine	2½ oz.
Camphor	½ oz.
Turpentine	40 oz.

Dissolve and strain. It is advisable to allow the varnish to mature for a considerable time before use in order to avoid bloom.

D. L. (14/98).—SPRAY DISINFECTANTS.—A formula for a suitable preparation would be as follows:—

Soft soap...	3 oz.
Isopropyl alcohol (or industrial methylated spirit)	3 oz.
Perfume	2½ oz.
Solution of formaldehyde ...	2 oz.

For use mix 2 oz. of this solution with one gallon of water, or less if necessary.

One of the following combinations may be used as the perfume.

A

Benzyl acetate	2 oz.
Geraniol	1 oz.
Phenyl ethyl alcohol	1 oz.

B

Oil of lavender	2 oz.
Oil of spike	1 oz.
Geraniol	1 oz.

Other recipes are given in "Pharmaceutical Formulas."

E. B. (20/98).—GREASE BANDING.—The following information regarding the preparation of tree-banding mixtures and their application is given in "Pharmaceutical Formulas," Vol. II, p. 719:—

1.—Mix equal parts of cart-grease and soft soap.
2.—Resin 5 lb., fish oil 1 gallon. Boil together.
3.—Resin 36 oz., rape oil 36 oz., Venice turpentine 20 oz., wood tar 5 oz., oil of turpentine 3 oz.

Mix by heating and stirring.

The mixture is spread upon grease-proof paper and the paper affixed to the tree (sticky side out) about 4 ft. from the ground.

A. A. W. (21/98).—INK FOR CELLULOID.—A solution of an aniline dye in glacial acetic acid would be suitable for marking the celluloid.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," September 15, 1884

Revision of the British Pharmacopœia

Dr. Walter Smith (Dublin) said [at a sectional meeting of the British Medical Association in Belfast] it was an easy and a cheap thing to find fault, and he would rather desire to express his conviction, and it was based upon some slight knowledge of the Pharmacopœia . . . that it was, in the main, a very good Pharmacopœia. . . . A pharmacopœia must always be a compromise between the traditions of the past, the knowledge of the present, and the hopes of the future. For these reasons, it was utterly idle to expect a perfect pharmacopœia. Two things, he thought, would contribute greatly to the success of future editions of the British Pharmacopœia. The one was to have a fixed periodical revision of it, and not to leave it alone until the Council was forced to take it up by the voice of the profession; and the next thing, which would prevent many a ridiculous and glaring mistake, would be to have the co-operation of the practical pharmacists in the revision.

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E. Fougera & Co., 90-92, Beekman Street, New York
Chas. L. Huisking & Co., Inc., 155, Varick St., New York
Lehn & Fink, Inc., N. York
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The Pharmacist expects a ***larger turnover*** in the winter months. By judicious placing of contracts ***larger profits*** may be obtained. We invite enquiries for special terms for

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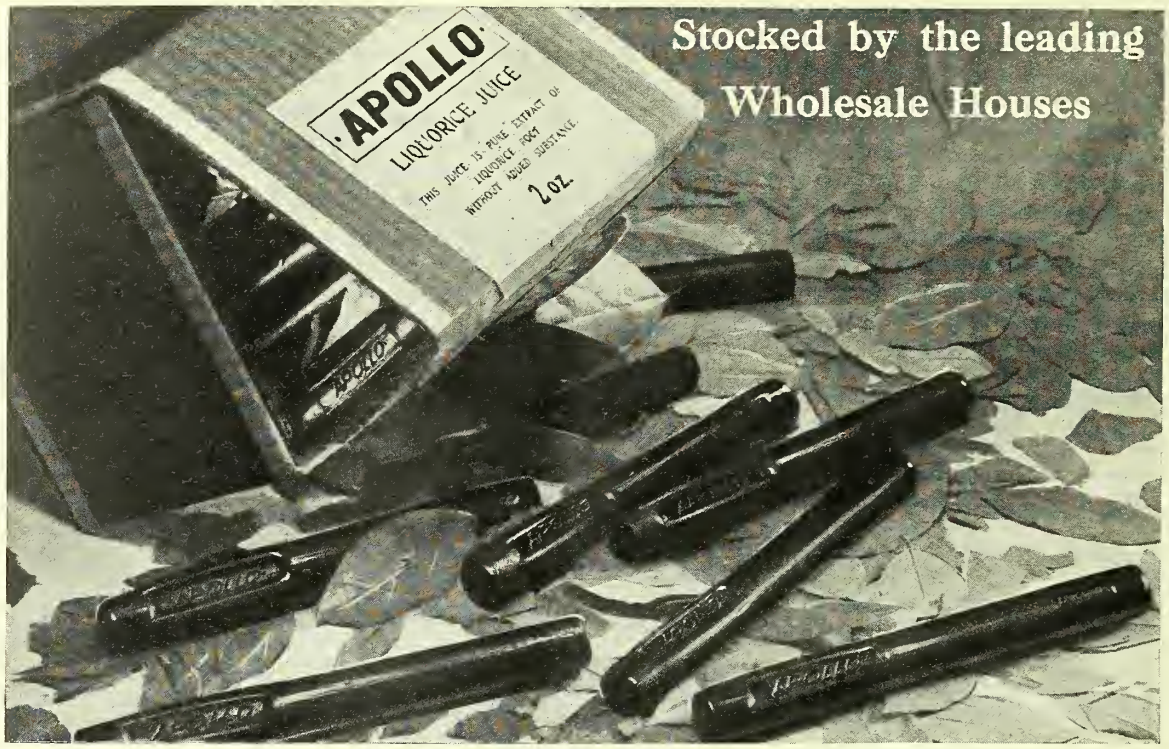

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We shall be pleased to send sample and quotation upon receipt of application stating quantity required.

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Extensively advertised to the medical profession and sold exclusively through qualified chemists . . . .

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"BLOOD MIXTURE"
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UNSTAMPED, FOR SALE BY CHEMISTS ONLY

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"CLARKES" *Brand* **BLOOD MIXTURE**
(Liquid and Tablets)

Retail **3/-**. 3 doz. lots **£4 - 4 - 0** *less* **3¾%** *one month*
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CARRIAGE PAID PACKING FREE

ASSORTED ORDERS

"CLARKES" *Brand*	Retail	Per doz.
"BLOOD MIXTURE" (*Liquid and Tablets*)	3/-	28/-
"BLOOD MIXTURE" (*Liquid only*)	12/-	112/-
SKIN LOTION ...	1/3	11/8
SALVE	1/3	11/8
„	3/-	28/-
„	5/-	46/8
APERIENT PILLS ...	1/3	11/8
„ „ ...	3/-	28/-
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Box 3 tablets ...	2/6	7/10
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Orders may be assorted as desired at above rates provided they reach minimum values, as follows :—
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THE PROVED REMEDY
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A new method for the prevention of colds, by the *oral administration* of an entirely new preparation, is now being put before the medical profession under the name of

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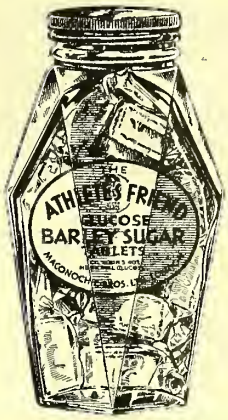

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GLUCOSE BARLEY SUGAR TABLETS
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Announcing our appointment as Sole Distributors of these Maconochie articles for the chemist

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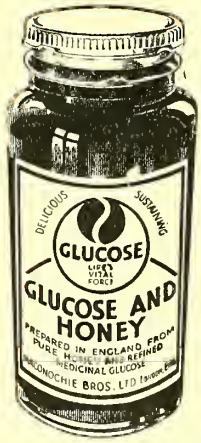

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YOU WILL BE ASTONISHED AT THE HUGE SALES OF THE NEW 11½D. SIZE

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Larger Sizes 1/3 and 3/- Per Bottle

The marketing of new popular sizes of such renowned Best Sellers as Venos Lightning Cough Cure and Dr. Cassells Tablets is an EVENT of such outstanding importance that it can only be introduced in a BIG WAY!

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And we are celebrating this BIG EVENT in a BIG WAY

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VALUE of ORDER	MINIMUM QUANTITIES OF THE NEW SIZES TO BE INCLUDED
£3	2 doz. 6d. Dr. Cassells Tablets 1 doz. 11½d. Venos Lightning Cough Cure *(Balance of Order to your own requirements.)*
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£10	6 doz. 6d. Dr. Cassells Tablets 4 doz. 11½d. Venos Lightning Cough Cure *(Balance of Order to your own requirements.)*
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VENOS *Brand* *LIGHTNING* **COUGH CURE**

The Family Remedy for

COUGHS, COLDS CATARRH, ASTHMA BRONCHITIS, 'FLU WHOOPING COUGH, etc.

Dr. CASSELLS *Brand* **TABLETS**

The Great Restorative for

NERVES, INDIGESTION ANÆMIA, HEADACHES RHEUMATISM WEAKNESS, INSOMNIA NEURALGIA, etc.

★ ORDER NOW ON BIG BONUS TERMS

ON BONUS TERMS

by offering you a BIG EXTRA BONUS of FREE supplies of these New Popular Sizes!

Parcels may be made up to your own requirements from the Veno Products price list, *the only stipulation being that each parcel must include the minimum quantity of the new sizes of Dr. Cassells Tablets and Venos Lightning Cough Cure as stated below.*

— of Venos Lightning Cough Cure, Dr. Cassells Tablets, Germolene Ointment

FREE BONUS GOODS

4 × 6d. size packages Dr. Cassells Tablets **FREE.**
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4 × 11½d. bottles Venos Lightning Cough Cure **FREE.**

1 doz. 6d. size packages Dr. Cassells Tablets **FREE.**
8/12 doz. 11½d. bottles Venos Lightning Cough Cure **FREE.**

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Do not forget your supplies of

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Brand ***ASEPTIC OINTMENT***

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The largest-selling product of its kind . . . continually placed before the public by forceful and consistent Advertising! A big seller all the year round. A product which will continue to go on to greater and greater record-breaking sales.

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MANCHESTER, 16

THE PUBLIC WILL BE DEMANDING LARGE QUANTITIES OF THE NEW 6D. SIZE

Dr. Cassells BRAND Tablets

Larger Sizes 1/3 - 3/- & 5/- Per Bottle

Lavender Gift Sets for Xmas Trade

Two of these Gift Sets have a novel presentation, being in the form of cabinets which can be used as work baskets.

The other boxes illustrated indicate the variety of the contents in the various sets.

A novel range of over seventy sets will be on display at the Chemists' Exhibition.

Potter *and* **Moore** *ltd.*

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POTTER'S CATARRH PASTILLES

P. A. T. A. 1s. 3d.
PER DOZ. 11s. 0d.
BOXES ½ DOZ.

Advertising is continuous and carried on throughout the year

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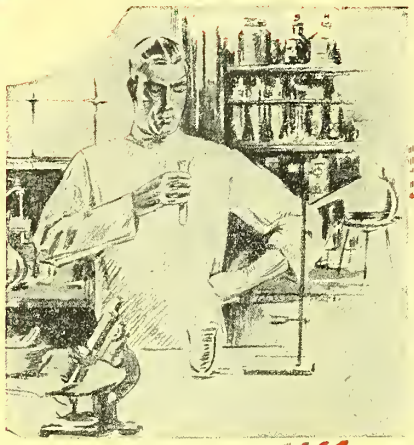


The ever-increasing demand for **RENDELL'S PESSARIES** is due to the care and attention which is fully maintained throughout every stage of the manufacture.

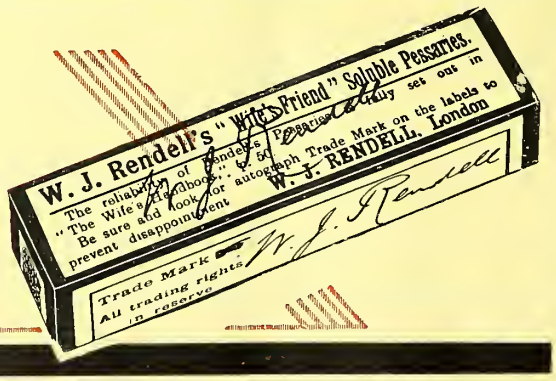
The Chemist can be satisfied that he is offering the one contraceptive which sets the standard for **PURITY** and **EFFICACY**.

The use of our latest showcards and booklets in conjunction with the sale service now offered is the direct way of increasing sales.

The demand is there!

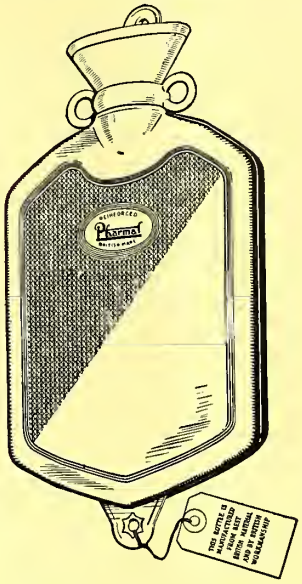
Make sure you obtain your full share of this important business.

W.J.RENDELL LTD LONDON.



HOT WATER BOTTLES

BRITISH MADE



A.1 MOULDED

The Popular Priced Bottle of Last Season with the New Grained Finish.

COLOURS:

Red
Orange
Orange & Black Marbled
Orange & Blue Marbled
Green

Per **18/6** doz.

3 doz.	@	**18/-**
6 doz.	@	**17/3**
12 doz.	@	**16/6**

NEW PHARMAL

Moulded Rubber

COLOURS:

Red
Blue
Green
Jazz

12 × 8 in. ... per doz. **24/-**

A.2 MOULDED

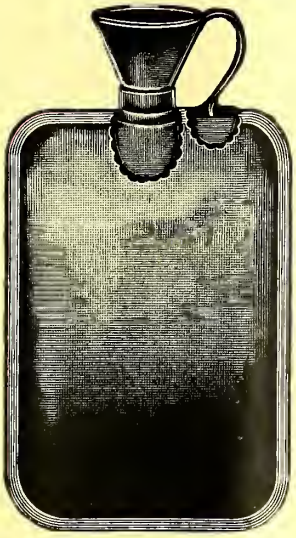
The New Shape for this Season.

COLOURS:

Orange & Red Marbled
Orange & Black Marbled
Red
Orange
Green
Blue
Pink
Mauve

Per **18/6** doz.

3 doz.	@	**18/-**
6 doz.	@	**17/3**
12 doz.	@	**16/6**



INDIA RUBBER

with Fabric Insertion

Non-leaking Neck and Double Seal Stopper.

	10 × 8	12 × 8	12 × 10
GREY, per doz. ...	**33/9**	**37/-**	**43/-**
RED ,, ,, ...	**36/3**	**39/6**	**46/-**

3 doz. assorted, *less* 2½%. 6 doz. assorted, *less* 5%

These Discounts only apply to this pattern.

COVERS

For Moulded Bottles ...		10 × 7	12 × 8
Ripple, per doz. ...		**5/9**	**6/3**
Velour ,, ,, ...		**8/-**	**9/6**
For Ordinary Bottles	10 × 8	12 × 8	12 × 10
Velour, per doz.	**8/9**	**10/3**	**12/3**
Molleton ,, ,,	**4/6**	**4/6**	—

ALUMINIUM

Round, Composition Stopper, Wide Neck, per doz. **11/6**

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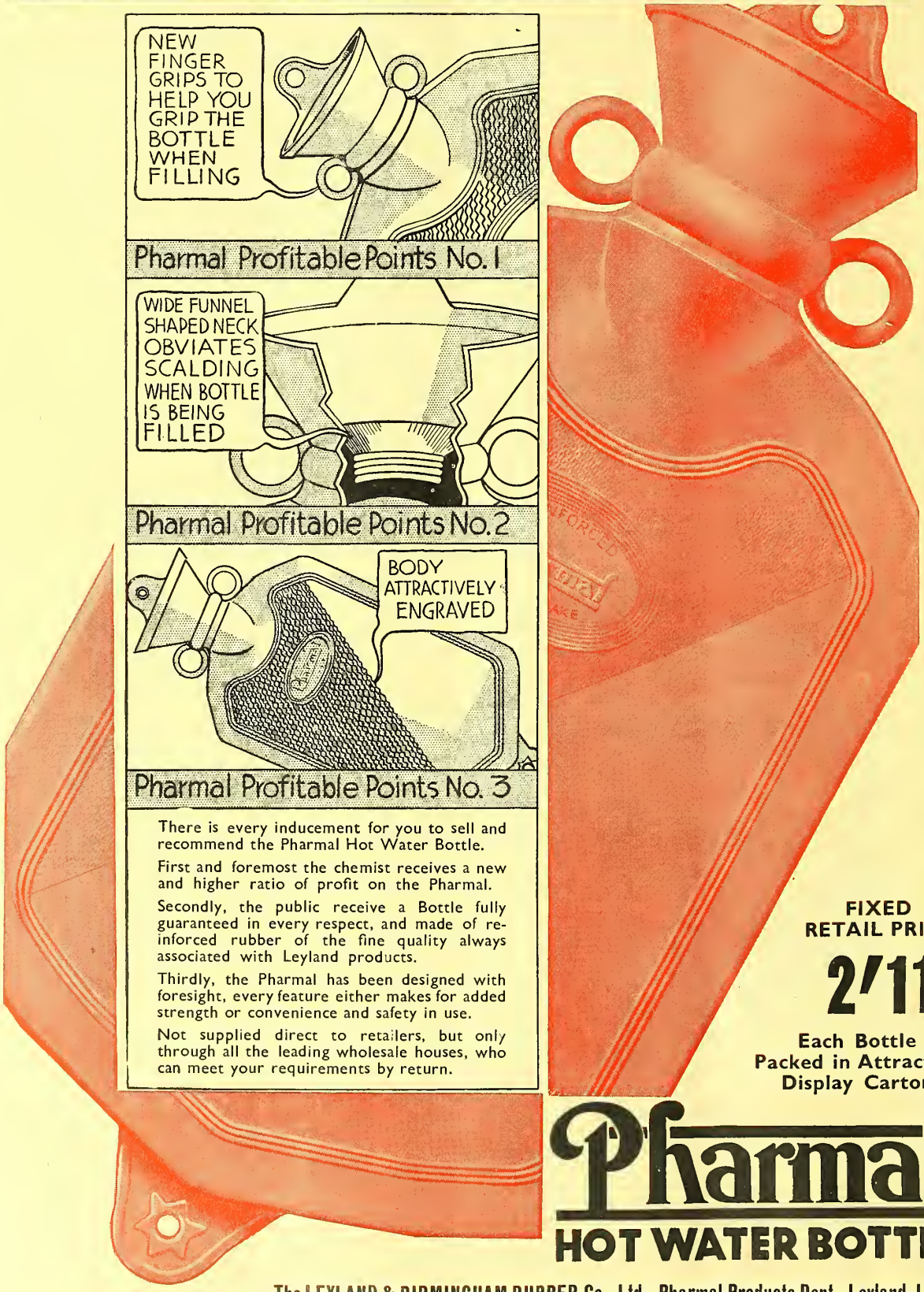
There is every inducement for you to sell and recommend the Pharmal Hot Water Bottle.

First and foremost the chemist receives a new and higher ratio of profit on the Pharmal.

Secondly, the public receive a Bottle fully guaranteed in every respect, and made of reinforced rubber of the fine quality always associated with Leyland products.

Thirdly, the Pharmal has been designed with foresight, every feature either makes for added strength or convenience and safety in use.

Not supplied direct to retailers, but only through all the leading wholesale houses, who can meet your requirements by return.



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Each Bottle Packed in Attractive Display Carton

Pharmal

HOT WATER BOTTLE

The LEYLAND & BIRMINGHAM RUBBER Co., Ltd., Pharmal Products Dept., Leyland, Lancs.

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SURGO

ELASTIC HOSIERY

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FOR SPECIAL GARMENTS MADE TO MEASURE WE MAINTAIN A 24 HOUR SERVICE

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so little
and yet mean so
much in the appearance
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is a household name in the bottle-making industry. Decades of experience, three up-to-date factories—skilled craftsmen—all these mean cleanly moulded sparkling containers which you can be proud of using—and at distinctly interesting prices

Enquiries are invited for any size, shape, or colour, either hand-made or machine-made
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Through the medium of these great daily newspapers an interest in this wonderful All-British series of products will be created in millions of homes. Last year emphatically proved that Crookes' Halibut Liver Oil has come to stay. Do not waste time therefore — take advantage at once of the generous bonus terms offered. Full particulars will be gladly forwarded upon request.

70% PROFIT ON OUTLAY

and it's a P.A.T.A line

CROOKES'

'COLLOSOL' (Reg'd)

HALIBUT LIVER OIL

STANDARDISED

THE CROOKES LABORATORIES
(British Colloids, Ltd.)
PARK ROYAL, LONDON,
N.W.10

Telephone: Willesden 6313 (3 lines) Telegrams: Collosols, Harles, London

(13)

Famous Figures

In Pharmacy AND ITS ALLIED FIELDS

Sir Hans Sloane died full of years and honours at the age of ninety-three, and left as his greatest monument the British Museum, the nucleus of which containing over 50,000 books and 16,000 natural history specimens, he bequeathed to the nation.

SIR HANS SLOANE

Sir Hans Sloane, (1660-1753) apothecary, physician, naturalist and author was born in Ireland, and studied at Apothecaries Hall. His friends included Robert Boyle and Sydenham.

After a period abroad where he took his M.D., Sloane made a voyage to the West Indies as physician to the Governor of Barbados and Jamaica, as a result of which he published two volumes giving a very interesting account of the fauna and flora of the latter island. On his return he continued in his profession becoming physician to Queen Anne and later George 1st who made him the first doctor baronet. He was elected president of the Royal College of Physicians and succeeded, on the death of Sir Isaac Newton, to the presidency of the Royal Society.

Of independent means, he waived his salary when holding hospital appointments and on becoming owner of Chelsea Manor presented the famous Physic Gardens to the Society of Apothecaries in gratitude for his early training with them. A statue of the donor stands in the centre of the garden which is one of the most interesting and historical of its kind.

As a physician he was distinguished by a progressive spirit and did not hesitate to employ new medicaments such as Cinchona which was being taken up very cautiously by his contemporaries. In his book, Sloane described a large number of plants including many of medicinal value. One finds for instance an illustration of *Piper aduncum*, a variety of matico, and he was the first to allude to Pimento. He read an original paper on St. Ignatius Bean (Nux Vomica) to the Philosophical Society.

He was Chairman of the Editorial Committee of the 4th London Pharmacopœia, 1741.

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100 Years of Service Established 1833

SLOANS

BRAND LINIMENT

The most widely advertised Liniment in the World

QUICK SALE—GENEROUS TERMS

Trade Terms
(Unstamped)

SLOANS BRAND LINIMENT	List Price 1 dozen at per dozen	6 dozen at per dozen	12 dozen at per dozen
1/9 size	15/9	15/-	14/6

Sloans Brand Liniment is a popular line in regular demand. Consistently advertised in the National and Local Press its merits are always before the Public. You can increase your trade by displaying the effective showcards supplied free on request.

ORDER YOUR WINTER'S REQUIREMENTS NOW

WILLIAM R. WARNER & CO. LTD.
Sole Distributors for Sloans Brand Liniment
300 GRAY'S INN ROAD, LONDON, W.C.1

One Size-One Price 1'9 Per Bottle

AN INNOVATION IN

RHINO - PHARYNGEAL THERAPY

ANAQUINTINE Brand

NASAL DROPS

Utilising Dr. Lescene's Drop-Counting Instillator

ALDEHYDES, THYMOFORM, EUCALYPTOL, EPHEDRINE

	Retail	Wholesale
Bottle of 22cc. complete with Instillator	**3/6**	**31/6 per doz.**

Your co-operation in promptly obtaining supplies when required will be appreciated.

Telephone : Holb. 6011. Telegrams : Ampsalvas, London

THE ANGLO-FRENCH DRUG CO., LTD.
11-12 Guilford Street, London, W.C.1

JONES *for* METHYLATED SPIRIT

ALL STRENGTHS IN STOCK
PROMPT DELIVERIES IN CASKS, DRUMS OR TANK LORRY

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Antiphlogistine

Brand Dressing

HUMAN & VETERINARY
MADE IN ENGLAND

Write for Special Quantity Terms

The Denver Chemical Mfg. Co., London, E.3

A BIG EVENT FOR CHEMISTS—BONUS ON 'ASPRO' 5's

'ASPRO' progress continues. Again during the past financial year all sales records have been broken. In no small measure this is due to the support and co-operation given to our publicity by chemists who have made continuous and practical use of our window displays and sales aids. Economic considerations have, in the past, prevented us from giving a bonus on 'ASPRO' 5's. Increased sales, however, have considerably reduced our overheads so we are now happily in a position to satisfy the repeated requests of our chemist friends for a bonus on the Unstamped 'ASPRO' 3d. size. We therefore announce that

A BONUS OF HALF A DOZEN PACKETS OF 5's ON EACH HALF-GROSS ORDER IS NOW GIVEN ON THE SAME TERMS AS OTHER SIZES.

This makes the chemists' profit on 5's the same as on 10's. Order your 'ASPRO' now and take advantage of this valuable concession.

Write us for a window display, too, and show it continuously. It will connect you up with our record-breaking advertising campaign and bring customers into your shop just as though you had paid for the advertisements yourself.

HERE IS OUR CURRENT DISPLAY

Show it Continuously

Printed in full colours

Agents:
GOLLIN & CO. PTY. LTD.
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Telephone: SLOUGH 608

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made by ASPRO LTD., Slough, ENGLAND

No proprietary right is claimed in the method of manufacture or the formula.

'ASPRO' REG. TRADE MARK

'CHO-ZEN'

100%
PURE
CHINA TEA

Sold only by Chemists
in ½ lb. tins
at 1/11d.

Generous Trade Discount ★ Free Sample sent on request

Advertisements are to appear in "THE LANCET" advising the medical profession of the introduction of

CHO-ZEN PURE CHINA TEA

Orders should be sent to your usual Wholesaler or to

KEMSALES LTD.
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BRAND World-wide Registered Trade Mark TABLETS

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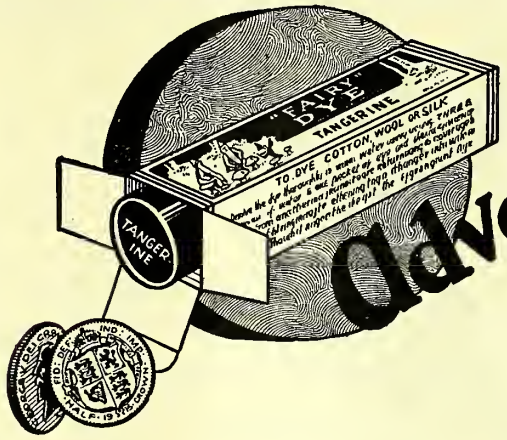

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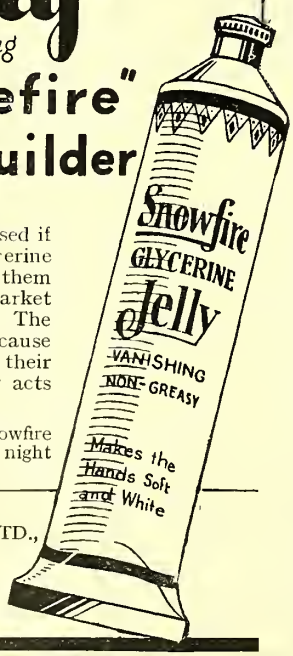

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

SEPT. 29, 1934

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3.—Old-established City Pharmacy for Disposal; returns 1933, £2,347; excellent corner position with extensive windows; the addition of modern window fittings and attractive stock would undoubtedly materially increase the turnover; 14 years' lease; terms, value of stock and fittings only, i.e., £650.

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5.—S.W. LONDON.—Good-class Family Retail Business; returns last year £2,038; large sublettable house over; 18½ years' lease unexpired; stock worth about £600; valuation terms entertained.

6.—N.W. LONDON.—Middle-class Retail and Dispensing Business in good position in main road; attractive shop; returns uuder management present rate £25 to £32 weekly; scope for increase; rent £100; sublet £110; the first reasonable offer will be accepted.

7.—BATTERSEA (Death Vacancy).—Old-established Business conducted as Drug Store; net profit last year £643; neglected; main road position; low rent; held on lease; immediate sale essential.

8.—NORTH LONDON.—All Cash Working-class Business; large scope for increase, especially Optical connection; returns 1934, about £1,300; Optical about £66; stock and fixtures worth about £650; 17 years' lease; six-roomed house; rent £120; reasonable offer will be accepted or valuation terms entertained.

9.—DRUG STORE in S.E. London for immediate disposal; established 30 years; net profit last year £225; stock and fixtures worth over £300; rent £70; sublet £46 16s.; long lease; price £350.

10.—PUTNEY.—Family Trade with large counter prescribing and own Proprietaries; returns 1933, £1,100; neglected owing to illness; net profit £328; double-fronted corner shop; renewable lease; price about £650.

11.—MANCHESTER.—Chemist's Business for immediate disposal owing to death of Proprietor; average turnover for past three years, £2,000; stock worth £500; fixtures £150/200; rent £60; good living accommodation with private entrance; price £700.

12.—SUSSEX (COAST).—Middle-class Business; established 1907; returns 1933, £1,349, with net profit £320; house and garden; rent £35 per annum; held on lease; price £600.

13.—YORKSHIRE (COAST).—Middle-class Business with Kodak Agency; present hands 22 years; returns 1933, £800; net profit £216; house and garden; rent £90; new lease will be granted; valuation terms entertained; Vendor is advanced in years, and no doubt there is scope for increase.

14.—S. WALES.—Pharmacy with Wine and Spirits, etc., returns 1933, £3,273; living accommodation; Vendor owns part of the property; an early sale is desired, and the Vendor is willing to any reasonable arrangement to suit a purchaser; further details to genuine applicants.

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16.—ESSEX (HEALTH RESORT).—Family Retail Business with Kodak Agency; increasing turnover, present rate £27 weekly; double-fronted corner shop, well fitted and stocked; living accommodation; rent £100; long lease; price £850 or valuation terms entertained.

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MANUFACTURING DISTRICT CLOSE TO THE CITY.—Unusually fine Factory Premises, having a total area of 22,100 sq. ft., on 6 light and lofty floors; central heating; electric lift; excellent loading facilities; to be let as a whole or in parts at low rentals; suitable for Manufacturing or Distributive Chemists. Apply Matthews & Goodman, 35 Bucklersbury, London, E.C.4. City 5627.

NEW, up-to-date lock-up Shop, growing neighbourhood, prosperous West Country town, just secured very large engineering order; every convenience; large room behind; electric light in lavatories; trade assured immediately to Chemist; no other in the locality; moderate rental. 171/5, Office of this Paper.

PREMISES FOR SALE.

A SPECIAL OPPORTUNITY TO CHEMISTS.—New developed estates; Shop and Living Accommodation at a cheap price; near Romford. Apply J. W. B., 12 Buckingham Street, W.C.2.

APARTMENTS.

WHEN YOU COME TO LONDON STAY AT THE HAMPDEN RESIDENTIAL CLUB.

FOR GENTLEMEN, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 bedrooms. 12s. 6d. to 25s. per week, including baths, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

SALE BY AUCTION.

By Order of Mr. R. C. Wilson.

Removed from Camberwell and Finchley for Convenience of Sale.

5 LITTLE BRITAIN (close to G.P.O.), LONDON, E.C.1.

The Entire Equipment of 3 CHEMISTS' SHOPS (2 in mahogany and 1 in oak), comprising Drug Runs, Shelving, Nests of Drawers, Dispensary Screen, Counters, Wall Showcases, Perfumery Desks, Weighing Machine, Scales, Shop Rounds, Silent Salesmen, Mirrors, Display Stands, Glass Shelves, Cash Registers, Office Furniture, Safes, Typewriters, &c.

B. NORMAN & SON

will Sell by Auction at their Sale Rooms, as above, WEDNESDAY NEXT, OCTOBER 3, at Twelve Noon.

View Day Prior. Catalogues on Application.

Tel.: NAT. 6463.

AGENCIES.

INDIA.—Important British firm of Manufacturing Chemists, with offices and depots in the principal cities, is open to consider Agencies for one or more well-advertised lines (Proprietary Medicines, Foods, Toilet Preparations, &c.) which could be conveniently handled by their existing selling organisation. Apply, with full particulars, to "Dawa," 249/928, Office of this Paper.

ADVERTISER, 20 years' experience in India, last 10 years managing director of largest European firm manufacturing and wholesale chemists in India, is open to accept representation in India and the East for reputable firm or group of firms. Write O. G. Matthias, Dolgelley.

ADVERTISERS, experienced and well connected with Chemists, Druggists, Provision Stores and Perfumery Dealers of Bombay, desire to act as Representatives, on moderate commission basis, in the following lines—Pharmaceuticals, Toilet Preparations, Surgical Requisites, Perfumery, Provisions and allied lines; products must be already introduced in Bombay or makers must be prepared to advertise; best efforts and co-operation assured. Reference: The National Bank of India, Ltd., Bombay. Reply to Kayen & Co., 19 Bank Street, Fort, Bombay, India.

ESTABLISHED London Firm of Analytical, Research and Consulting Chemists desire to get in touch with Gentlemen of unimpeachable character, throughout the country, with a view to appointing Agents or Representatives; remuneration by way of commission. Apply for full details, stating age, experience, qualifications, &c., to 169/9, Office of this Paper.

EXCLUSIVE Agencies offered for a new Skin Cream, of many uses; retails at 1s. per jar; suitable for highest-class business; terms show to 39 per cent. net profit on sales. Write BCM/Pazalene, London, W.C.1.

GENTLEMAN, with well-situated office in Liverpool, connection Home and Export, seeks Agencies reputable Manufacturing Firms; part expenses *and* commission basis. 167/3, Office of this Paper.

MANUFACTURERS of the Well-known Antiseptic Iglodine are open to appoint progressive Agents, abroad with the exception of Australia and South Africa. Write for full particulars, Iglodine Co., Ltd., Newcastle-on-Tyne.

MANUFACTURING Chemists with well-advertised established lines, having increasing sales amongst Chemists and Stores, require first-class Distributing House with good sales organisation to take over the sole Agency for England, Scotland and Wales; existing turnover and connection will be handed over en bloc. Please write 249/929, Office of this Paper.

PARTNERSHIPS.

ACTIVE Partner required for growing South Coast Pharmacy needing capital for fuller development; excellent prospects for live man who will invest £750-£1,500 (secured); opportunity for Optics; with additional capital turnover could be increased to £5,000; business has excellent site; option could be given to acquire business later. 171/34, Office of this Paper.

WANTED.—Active Manager, Foreman or Business Executive; with thoroughly practical knowledge of Manufacturing or Merchanting some line of Specialty Goods for Home and Colonial markets; financial interest given for introduction of business offering scope for development; replies treated in strict confidence. Write 163/11, Office of this Paper.

FINANCIAL.

CHEMIST wants shares in Drug (or Allied) Concerns. Offers to A. B., Compton Park House, Mannamead, Plymouth.

APPRENTICES.

APPRENTICE wanted for Pharmacy in S.W. London, close to Schools of Pharmacy; no premium required; small wage given. Apply in own handwriting, giving full particulars and wage expected, to J. Allnutt, M.P.S., 193 Brixton Road, London, S.W.9.

MR. W. E. MASON, Pharmacist, 89 Acre Lane, Brixton, has now a vacancy for an Apprentice, preferably one with Part I.; no premium; excellent Dispensing experience will be gained from this well-established business.

YOUNG Lady, living (in) S.W. London, requires Apprenticeship, Hospital or Retail; Part I. 170/2, Office of this Paper.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid (Box No., 1s. extra.)

BIRMINGHAM.—Qualified Manager required for good-class Dispensing and Toilet Business; good Salesman; preferably single. Apply, stating age, experience, height and salary required, enclosing photo, Mrs. Dunscombe, 171 Hagley Road, Birmingham.

BRIGHTON.—Qualified Lady or Elderly Gentleman required for small business; light N.H.I. and Counter. Apply, enclosing copy of references and stating salary required, which must be moderate, to 170/4, Office of this Paper.

FOR WEST END.—Thoroughly experienced Unqualified Man with sound knowledge of Toilets; applicant must be conversant with modern Salesmanship, possess initiative and tact; permanency; when replying please state, in full, experience, age, salary required and enclose snap. 171/55, Office of this Paper.

HUDDERSFIELD.—Young Unqualified Male Assistant required immediately; Counter, Dispensing, Window-dressing; please state full details, age, height, experience, references, salary required, &c. Walshaws, Chemists, 4 Market Place, Huddersfield.

KENT, Seaside.—Wanted, Qualified Man as sub-manager (aged 25 to 40), for private company opening new Pharmacy; must have good references. Apply, stating age, height, experience, photo and salary required, to 171/37, Office of this Paper. All applications not answered in 4 days declined with thanks.

LONDON, E.10.—Required at once, Qualified Lady to manage smart branch shop; salary 70s. p.w.; good prospects for reliable worker. Apply, stating age and experience, references, photo required (returned if stamped addressed envelope is sent), 171/10, Office of this Paper.

LONDON, N.—Wanted young Qualified married Man for Branch Managership, with Optical diploma preferred; house attached. Apply, giving particulars of age, height, experience, salary required, photo if possible, which will be returned, 171/39, Office of this Paper.

LONDON, Piccadilly District.—Qualified Chemist wanted at once for a month or more; good West End experience essential. Write, stating full particulars of experience, salary required, when available, etc., to 171/2, Office of this Paper.

LONDON, W.—Capable and energetic Qualified Assistant of good address and appearance (under 30); first-class Salesman and good Window-dresser; state full particulars of experience and salary required. Replies to 171/45, Office of this Paper.

LONDON, W.—Young male Assistant; applicants must have had first-rate experience in Dispensiug, Counter-work and Window-dressing; permanency for right man. Replies by letter only, giving full particulars. Robertson, 161 Cheviot Gardens, Cricklewood, N.W.2.

N.E. LANCS.—Young Qualified required, either sex, to manage small branch; give usual particulars and state salary. Hartleys, 6 Railway Street, Nelson.

NEAR PICCADILLY.—Assistant required, Qualified; must be good Counterman and Window-dresser, also accurate Dispenser; state age, height, full experience and salary required; enclose recent photo and copies of references. 168/1, Office of this Paper.

N.W. LONDON.—Qualified Chemist and Optician (about 30); good Window-dresser, Salesman; used to brisk N.H.I. and working-class district; commission on Optics; excellent scope. Write full particulars 171/22, Office of this Paper.

SOUTH WALES.—Qualified Locum required, October 8 or 15-October 27; Optics an advantage; £4 weekly, with free board-residence; only keen, trustworthy men need apply. Enclose photograph and two references in first instance to Arthur Morgan, 12B Kingsdown Parade, Bristol, 6.

DR. STEEVENS' HOSPITAL, DUBLIN.—Apothecary required; salary £250 to commence; live out; applications to be sent to the Secretary at the Hospital, on or before October 16, 1934.

A HIGH-CLASS West End Pharmacy require an experienced Qualified Assistant for Counter work. Apply in the first instance by letter, giving fullest particulars, which will be treated with confidence, to 172/10, Office of this Paper.

ASSISTANT, Qualified, required at once for permanency; should be able to take charge; district near Ealing, W.; moderate salary to commence. Particulars of experience, &c., to 172/2, Office of this Paper.

ASSISTANT, Unqualified, Junior (22-25), wanted at once; must be quick Counterman, good Salesman and Dispenser; references to bear strict investigation; duty immediately. Apply by letter to 9 Thurlestone Road, West Norwood, S.E.21. 'Phone: Streatham 7420.

DRUGS.—John Barker & Co., Ltd., require smart Saleswoman (about 25) for this department; must be thoroughly experienced. Apply Staff Manager, King Street, W.8.

JUNIOR Assistant, just finished Apprenticeship preferred, for good-class business, Hendon central; no Sunday or holiday duties; must be enthusiastic. Please apply in first instance, *in writing*, to B., 31 Winchester Avenue, N.W.6.

JUNIOR Assistant (aged 20 to 24 years) required immediately for Dispensing and Counter. Apply by letter, giving particulars of experience, age, salary required and when at liberty, Clifford Evans, 135 Ladbroke Grove, W.11.

JUNIOR Assistant required (Lady or Gent), with good general experience, Dispensing and Counter. Full particulars to F. R. Burton, Chemist, Wellington, Shropshire.

LADY Improver; knowledge of Book-keeping; references essential. E. B. Stamp, 29 High Street, Hampstead.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

LOCUM.—Qualified Chemist-Optician, or Qualified Chemist with Optical experience, required for a few weeks from middle of October; good-class experience and references necessary. Apply, giving usual particulars and salary required, Coates, Chemist-Optician, Littlehampton.

MANAGER.—Wanted from October 29, progressive Pharmacist with Optical qualification as Manager of a valuable business in South Wales; salary £4 weekly plus commission and free furnished apartments on premises; only first-class men of all-round experience and proved business-building ability need apply. 171/14, Office of this Paper.

PHARMACY.—Junior Female Assistant required for South-Eastern area; previous experience an advantage. Write, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Ltd., 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." *Note.*—Canvassing of members of the General Committee or Officials will disqualify.

QUALIFIED Assistant, permanency, for East London working-class district; used to N.H.I., Counter and Window-dresser. Apply by letter to Mr. W. Kirby, 1A Coborn Street, London, E.3, stating salary, references and when ready to commence.

QUALIFIED Buyer-Dispenser (30 to 40) wanted for progressive post; must have Buying and Management experience. Apply, with full particulars, to 170/12, Office of this Paper.

QUALIFIED Chemist required for growing business in Staffordshire; state age, qualifications and salary required, also photograph. 172/29, Office of this Paper.

QUALIFIED, Lady, M.P.S., for October as Second Assistant; moderate hours; progressive salary; about 20 minutes from Liverpool Street. Apply T. Chemist, 127 Belgrave Road, Ilford.

QUALIFIED Lady; reliable Dispenser, experienced Counter; smart appearance; some Surgical and Toilet knowledge preferred; for a new business opening early in October; state salary required and when free; references; married woman preferred. Apply 172/7, Office of this Paper.

QUALIFIED Lady required for Dispensing and Counter. Apply, with full particulars and salary required, to Richards & Bowring, Ltd., The Pharmacy, Wickford, Essex.

QUALIFIED Manager, young, required at once for branch shop. Linthorn, Chemist, Hall Green, Birmingham.

UNQUALIFIED Assistant, good Dispenser and Counterman, required immediately; please state age, salary and experience. Chemist, 51 Greenford Avenue, Hanwell, W.7.

UNQUALIFIED Assistant wanted, under 30 preferred; must be an accurate Dispenser and accustomed to quick Counter trade. Apply, stating age, experience, salary required, to Head Office, Wm. Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road, London, E.2 (10 minutes Liverpool Street).

UNQUALIFIED Male Assistant (S.E.9 district) required (not more than 24); London experience; apply by letter with particulars of experience and salary required; duties to commence immediately. 171/31, Office of this Paper.

UNQUALIFIED Male Assistant (25-30) wanted immediately for Central London; state full particulars and salary required, which must be moderate; also telephone number for purpose of arranging interview. Write 171/35, Office of this Paper.

WANTED, a Qualified Chemist or elderly Superintendent; honest; capable; good Window-dresser and Salesman. Write, stating when free, age, salary, experience, to 171/48, Office of this Paper.

WANTED immediately, Junior Assistant (male) for middle-class suburban business; must be an accurate Dispenser and capable Window-dresser. Apply by letter or personally to G. H. Mack, 62 Brockley Rise, S.E.23. All replies not answered within three days respectfully declined.

WANTED.—London, N.E.; young Unqualified Assistant, with N.H.I. Dispensing experience, required at once; local preferred. Apply by letter, stating wages required and references, to "Chemist," 20 St. Ann's Road, Harrow, Middlesex.

WANTED, Qualified Assistant; single; good Salesman, Dispenser and Window-dresser essential; capable of taking charge if required. Experience, age and salary required, to Raymond Cope, Cawdry Pharmacy, Leek, Staffs.

YOUNG Qualified Chemist wanted to control Prescription Service in the North; invest £300 to £500; salary and participation. 168/6, Office of this Paper.

WHOLESALE.

NORTHERN Manufacturing House requires an Assistant; must be experienced in the Manufacture of all Galenicals, &c., in large quantities. State age, experience, salary required, to 249/931, Office of this Paper.

A VACANCY will shortly occur for a Gentleman to manage the Surgical Instrument Department of a High-class Wholesale House. Only applicants who have a full knowledge of the trade need apply, stating age, experience and salary required, to 169/14, Office of this Paper.

ANALYST (17-19), Junior, wanted for N.W. London works; quick and accurate worker; experienced in Routine Analysis of Soaps and Perfumery Materials; state age, experience and wages required. 249/933, Office of this Paper.

FIRST-CLASS Representatives required in several districts for distribution of good selling and non-competitive patent medicines; only gentlemen with established connections amongst Chemists please send full particulars; salary and commission. 168/3, Office of this Paper.

FIRST-CLASS Representatives wanted in London and Wales for distribution of well-known products of London firm; only those with connections amongst Chemists and Druggists need apply. 249/932, Office of this Paper.

FIRST-CLASS Side Line offered well-connected Representatives making regular journeys provinces. New Counter/Window Display Sign, size 12 x 10 inches. Gives day and night advertising value; sells 12s. 6d. complete. Car and good references essential. Write fully LINAD, 4 Gray's Inn Road, London, W.C.1.

MEDICAL Propagandist required by firm specialising in manufacture of Gland Products, for Lancashire; salary and commission. Write fully, giving experience in confidence, 249/939, Office of this Paper.

MEDICAL Transfer Agency would like to hear from successful Representatives calling on Medical Men in the North and Midlands; generous terms for small services; strictest confidence will be observed. 249/927, Office of this Paper.

OLD-ESTABLISHED firm Pharmaceutical Preparations, &c., would consider applications for whole-time Representative; own car preferred. Reply, giving age, experience, references, area covered, expected remuneration, small photograph if possible, to 171/44, Office of this Paper.

REPRESENTATIVE required for Yorkshire and East Lancashire by progressive Sundries and Dressings firm in Lancashire; salary, commission and expenses; connection amongst Chemists in area essential; applications must state age, experience, &c., and will be treated with strictest confidence. 163/24, Office of this Paper.

REPRESENTATIVE required with established Chemists connection in Lancashire, Westmorland and Cumberland. Apply 249/936, Office of this Paper.

TABLET AND PILL MAKING AND COATING.—Man wanted by Wholesale House in Yorkshire for this department as second in charge; must have good experience, especially in Coating. Send references and fullest particulars of experience to 170/13, Office of this Paper.

TRAVELLERS Wanted to handle an exclusive, high-class article as side-line, well introduced to the trade; no competition; great scope; good commission; only first-class men need apply. Write Box 18, c/o Pools, 180 Fleet Street, E.C.4.

TWO Representatives required for South of England, from Kent to Cornwall; calling upon Chemists, Hairdressers and Stores; to carry new proprietary on commission basis; very attractively displayed and ready seller; only Travellers with first-class connections and references considered. Write, in confidence, 170/24, Office of this Paper.

WANTED.—Competent Shorthand-Typist; used to Chemical and Medical terms; must be rapid and accurate worker. State experience and salary required in first instance to 249/930, Office of this Paper.

WELL-KNOWN Manufacturing House marketing Nationally Advertised Proprietary Articles requires the services of three additional Representatives resident in Birmingham, Bristol and North London or Middlesex respectively for the following territories:—(1) Worcester, Warwick, Leicester, Northampton; (2) South Wales, Gloucester and South-West Counties; (3) Berkshire, Oxford, Buckingham and Eastern Counties. Applicants must be under 35 years of age and should give fullest particulars of previous experience (in confidence), age and salary required to 249/940, Office of this Paper.

YOUNG Qualified Pharmacist required by Agricultural and Horticultural Chemical Department of large firm near London; must be capable of doing Office Work, as well as taking charge of Laboratory and Manufacturing. Write, stating age, training, experience and salary required, 170/23, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

A BRITISH Firm of Manufacturing Chemists requires the services of capable Man, preferably Pharmacist, with Indian experience, for the purpose of proceeding to India and establishing a branch there. Apply, with full particulars as to qualifications, experience, age, medical fitness, &c., to 249/934, Office of this Paper.

LEADING Firm of Manufacturing Chemists in Germany have vacancy in their Literary and Advertising Department for young educated Englishman; must know sufficient German to be able to translate scientific matter into fluent English; Pharmacist with literary and advertising experience in pharmaceutical products preferred. Applications, with full particulars and salary expected, 249/935, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.—QUALIFIED (26), desires change, progressive position; Senior Assistant or Manager; possesses enthusiasm and ability; London. Thomas, 4 Dudley Gardens, Ealing, W.13.

A.A.A.—QUALIFIED (24), desires position in London as Assistant or locum; smart appearance, competent and trustworthy; highest references; now disengaged; appreciate interview; salary £4. Greenberg, 2 Troutbeck Road, New Cross Gate, S.E.14.

A.A.—ASSISTANT, Unqualified, seeks change; London and Provincial experience; good references; competent Dispensing, Photographics, Counter; Birmingham District desired. 172/6, Office of this Paper.

A.A.—EXPERIENCED Assistant (full or part time); Unqualified; Dispensing, Counter, Windows, Prescribing. "Aspirin," 16 Brixtou Road, S.W.9.

A.A.—LOCUM, tall, abstainer, highly recommended; prize Photographer; West End, spa experience; free 1st; Unqualified. "Mac," Wotton-under-Edge, Glos.

A.A.—QUALIFIED (23); City and Provincial experience; excellent post-qualification training in General Management; excellent references; reliable and trustworthy. Johnson, 185 Powerscroft Road, E.5.

A FIRST-CLASS Salesman (29), fine record; West End experience; tall; good address; abstainer; capable Dispenser; seeks situation where real live man can be used. Ajax, 170 Peckham Rye, London, S.E.22.

A QUALIFIED Manager requires position in London or suburbs as Branch Manager; 20 years' experience. Davies, 109 Alexandra Drive, Surbiton, Surrey.

A QUALIFIED Scot (25); tall; 9 years' experience (London and country) Dispensing, D. and P., Window-dressing; excellent references; disengaged. "Chemist," 4 Lynette Avenue, S.W.4.

A QUALIFIED (25), well trained, good address, desires position as Manager; West End and provincial experience; now managing. 171/8, Office of this Paper.

ASSISTANT; competent Dispenser, Salesman, Photography; single, active, Unqualified; 25 years' experience. "Aspirin," 61 Fartown Green Road, Fartown, Huddersfield.

ASSISTANT, Unqualified; experienced Counter and Dispensing; used to taking charge; good references; disengaged; E. London preferred. B., 253 Brentwood Road, Romford.

ASSISTANT, Unqualified; tall; thoroughly reliable; all branches; part or full-time; interview arranged; moderate salary, sound references. "London," 171/26, Office of this Paper.

ASSISTANT, Unqualified (24); South Wales preferred; London experience; Counter, Dispensing, Window-dressing. A. D., 14 Litchard Terrace, Bridgend.

ASSISTANT (27); capable; experienced Dispenser, Counter, Windows, Photographic; reliable references; permanency; Part I, 27 Mansfield Ave., N.15.

ASSISTANT (22), Part I, experienced and capable Dispenser, Counter and Windows; keen and energetic; permanency; reliable references; provincial and London experience; free one month. H. J. W., 37 Arlington Road, N.W.1.

ASSISTANT (36), Unqualified, desires locum or permanent position; experienced Dispenser, Counterman, Window-dresser, and in Continental Pharmacy; fluent French; excellent references; disengaged. "S.," "Northcote," Goodwins Road, King's Lynn.

ASSISTANT (36), Unqualified; thorough Dispenser, Prescriber, Window-dresser; sound knowledge of Photography; keen and tactful Salesman. Marshall, 28 Ambler Road, Finsbury Park.

BIRMINGHAM area preferred, not essential; permanency desired; locum work undertaken; thoroughly experienced; well recommended. Write or wire, Hanley, 180 Lozells Road, Birmingham.

DISPENSER, Gentleman, experienced Hospital, Institution, Doctor's (3 years prev. N.H.I.); served Apprenticeship with Chemist; active, reliable. 65 Cloudesley Road, N.1.

DISPENSER'S Locum; elderly, Qualified, experienced, with good references; please state hours of duty. 170/21, Office of this Paper.

DISPENSER (male, Unqualified) desires post; experienced; references. Chandler, 33 Haslemere Road, Southsea.

ENERGETIC Live Manager; good Window-dresser, capable Counterman, accurate Dispenser; accustomed to modern business methods with cumulative results; knowledge of Optics; salary and commission; London. 172/9, Office of this Paper.

EXPERIENCED Assistant (29), tall, gentlemanly, desires permanency, London or suburbs; keen and energetic worker; sound all branches of business. Apply "Alert," 126 High Street, Peckham, S.E.

EXPERIENCED Qualified man accustomed to Managership and correct business methods; West End and general London experience; highest references; locum or permanent. "Meritor," 32 Myddleton Square, E.C.1.

EXPERIENCED Qualified Manager (30), last 5 years complete control of successful business, seeks responsible post; taking final S.M.C. December; free at short notice; excellent references past and present employers. Hill, Charlwood, Middleton Estate, Bognor Regis.

EXPERIENCED Surgical Fitter, Dispensing, Prescriber, Counter, Windows; Unqualified; 45; excellent references. A. B., 2 Walham Grove, Fulham, S.W.6.

JUNIOR (20) desires change; 3 years' good experience Counter, Dispensing, Window-dressing; excellent references; London or Suburbs. 169/7, Office of this Paper.

LADY Assistant (30) requires further experience in good-class West End Toilets, Display, Stock-keeping &c. 170/6, Office of this Paper.

LADY Dispenser, Hall qualification, desires post; locum or permanency. 162/2, Office of this Paper.

LADY Dispenser requires post; Hall Certificate; 4 years' experience with Dispensing Chemist. Hillier, "Pengarth," St. Agnes, Cornwall.

LADY (Hall) seeks post, Doctor or Chemist; experienced Dispenser, Book-keeper, Counter; references; free October. Morris, Cefncarfan, Bryncethin, Bridgend.

LADY, M.P.S., requires post, part-time or locum; good general experience; free October 8. Chemist, 5 Randolph Gardens, N.W.6.

LOCUM; disengaged October 1; accustomed to managership; 15 years' experience; excellent references. P.C.B. 135/5, Office of this Paper.

LOCUM (31), Qualified; free now till October 20; thoroughly experienced; London or near. Rance, 39 Boyne Avenue, Hendon.

MANAGER (42), 14 years' London and provincial experience, finished season's locum, desires permanent post. Leith, 92 Fentiman Road, S.W.8.

M.P.S., F.B.O.A. (32), several years management, desires change; good experience Photography, Optics. S., 19 Hawthorne Avenue, Thornton Heath.

M.P.S., LADY, having good general experience, desires post with light duties; moderate salary. 171/3, Office of this Paper.

M.P.S. WISHES Branch Managership or position of trust (South of England preferred); capable business man; trustworthy; excellent references; free October 1. Cooper, "Rowandene," Ashley Heath, near Ringwood.

M.P.S. (35) desires Manager's position in London; 6 years' management one position; capable; trustworthy; highest references; £3 15s. weekly. 171/47, Office of this Paper.

M.P.S. (22); recently Qualified; tall; good appearance; single; adaptable; courteous, energetic and reliable; experienced Retail trade; Photography, Dispensing, good Counterman; reference. Taylor, Willington House, Kirton, Lincs.

M.P.S.N.I. (30) seeks change; Chemist-Optician preferred; 4 years Manager; can be free any time; abstainer. 173/2, Office of this Paper.

PACKER (19); 5 years' experience in Window-dressing, Counter-work, Stock-keeping, slight Dispensing; South London preferred; highest reference. P.C.B. 134/25, Office of this Paper.

PART-TIME Post wanted by Dental Student; evenings and two or three days a week available; served 3 years' apprenticeship; preferably within easy reach of Guy's Hospital. 171/17, Office of this Paper.

PERFUMERY and Toilets, Young Lady (20) desires situation; experienced; good references; speaking French; London preferred; small salary; would accept situation as Improver. BM/DCH3, London, W.C.1.

PHARMACIST-OPTICIAN (J.C.Q.O.), with extensive experience in all branches, including truss and surgical fitting and knowledge of large-scale buying markets, seeks permanent position (preferably with agreement) commensurate with qualifications stated; every facility given for investigation into private and business references; present position is responsible but uncongenial. 171/43, Office of this Paper.

QUALIFIED Chemist (26), Lady, experienced in all branches, excellent references, requires change. Apply, with full particulars, wages, hours, &c., 169/12, Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

CLEAR OUT OLD STOCKS OF BOTTLES AND JARS FOR PROMPT CASH
ANY QUANTITIES
Post Samples and Full Particulars to:—
W. SPEAKE, 68 Yew Tree Road, WALTON, LIVERPOOL

QUALIFIED Chemist (54), recently retired, desires position Superintendent; light duties; locum; terms moderate. 171/18, Office of this Paper.

QUALIFIED Dispenser, Lady, disengaged, desires post as Assistant in Hospital or Institution; moderate but progressive salary; excellent references; 10 years' all-round experience. M.P.S., 33 St. Bernards Road, Olton, Birmingham.

QUALIFIED Lady Dispenser (Hall); secretarial knowledge; Hospital work preferred; good references. Miss Lacey, Warley Hill, Brentwood, Essex.

QUALIFIED, locum or permanency; experienced branch manager; free October 2. G. W., 20 Dronfield Road, Pendleton, Salford.

QUALIFIED M.P.S.I., male, seeks position as Senior Assistant in London; 9 years' all-round experience; Dispensing, Veterinary and Photographic; excellent references. Byrne, 18 Clifton Gardens, W.9. Abercorn 2034.

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